HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

RA-6A CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KP-46WT510	*RM-Y909*	*US/CND*	*SCC-M10DA*

ORIGINAL MANUAL ISSUE DATE: 6/2003

☛ : **UPDATED ITEM**

REVISION DATE	SUBJECT
6/2003	No revisions or updates are applicable at this time.
6/30/2003	Updated G (Pg. 58) and D (Pg. 77) Schematics, Added critical symbol to G Board on Exploded View section 6-3. Chassis (Pg. 90) Updated critical components on Parts Lists (Pgs. 92-135)
8/25/2003	Updated Table of Contents (Pg. 3) Corrected Diagrams for H2, H1, and H4 Board Removal (Pg. 11) Replaced 2-11. Service Data Lists with 2-11. Adjustable Service Data Lists (Replace Pgs. 19-37 with Pgs. 19-29) Corrected procedures for 2-12. Registration Adjustment (Replace Pg. 38 with Pg. 30) Corrected procedures for 2-13-2. Copying All Registration Data to Other Modes and 2-14. Auto Registration Offsets (Replace Pg. 42 with Pg. 34) Corrected Error Codes 54 & 55, 2-15. Auto Registration Error Codes (Replace Pg. 43 with Pg. 35) Added 2-16. Auto Registration Diagnostics (Replace Pg. 44 with Pg. 36) Corrected 3-D-Comb # from 5-3. Block Diagram (Replace Pg. 51 with Pg. 43) Deleted IC308 Block Diagram from 5-5. IC Block Diagrams (Replace Pg. 84 with Pg. 76) Corrected semiconductors 5-6. Semiconductors (Replace Pg. 88 with Pg. 80) Corrected Grille piece on cover exploded view diagrams (Replace Pg. 89 with Pg. 81)
11/11/2003	Replaced data relating to CR, CG and CB Boards. Affects Pages 46-48 (Schematics), 83 (Exploded View), 84-87 (Parts List).
11/16/2004	Removed Note from section 2-12-1. Setup For Adjustment. Note is intended for use by the factory during production, and should not be performed by service technicians.(Pg. 30) Updated A Board, Complete PN, Added A Board, Mounted PN, Added New CRT's, D Board, introduced new S/N range. Affects S/N's 8,000,001 to 8,700,000 (Pg. 82 & 83)
11/17/2004	Added new D Board PN to Electircal Parts List Affects S/N's 8,000,001 to 8,700,000 (Pg. 120 & 124)
8/19/2005	Updated serial number range for D Boards and CRTs (Pg. 82, 83, and 120)

COLOR REAR VIDEO PROJECTION

SONY®

9-965-946-07

Self Diagnosis Supported model

SERVICE MANUAL

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MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KP-46WT510	*RM-Y909*	*US/CND*	*SCC-M10DA*

KP-46WT510

RM-Y909

COLOR REAR VIDEO PROJECTION

SONY

9-965-946-07

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SPECIFICATIONS

Power Requirements 120V AC, 60Hz

Power Consumption (W)
In Use (Max) 230W
In Standby Under 1 W

Inputs/Outputs

DVI-HDTV
1 terminal, 3.3V T.M.D.S., 50 ohms
The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.

Video (IN)
4 total (1 on front panel)
1Vp-p, 75ohms unbalanced, sync negative

S Video (IN)
3 total (1 on front panel)
Y: 1Vp-p, 75ohms unbalanced, sync negative
C: 0.286Vp-p (Burst signal), 75ohms

Audio (IN)
6 total (1 on front panel)
500 mVrms (100% modulation)
Impedance:47 kilo ohms

Audio (VAR/RIX)
1 total
500 mVrms at the maximum volume setting (Variable)
500 mVrms (Fixed)
Impedance (Output):1 kilo ohm

TV Out
1 total
Video: 1 Vp-p 75 ohms unbalanced, Sync negative
Audio: 500 m Vrms (100% modulation)
Impedance (output): 1 kilo ohms

Control S (IN/OUT)
1 total
Minijacks

Component Video Input
2 (Y, P_B, P_R)
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
P_B: 0.7 Vp-p, 75 ohms;
P_R: 0.7 Vp-p, 75 ohms

RF Inputs
2 total

Converter
1 total

	KP-46WT510
Speaker Output (W)	20W x 2
Dimensions (W x H x D)	
mm	1086 x 1017 x 609 mm
in	$42^{3/4}$ x 40 x 24 in
Mass kg	61.3 kg
lbs	135 lbs

Projection System
3 picture tubes, 3 lenses, horizontal in-line system

Picture Tube
7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system.

Projection Lenses
High performance, large diameter hybrid lens F1.1

Antenna
75 ohm external terminal for VHF/UHF

Television System
NTSC, American TV Standard

Channel Coverage
VHF: 2-13/ UHF: 14-69/ CATV: 1-125

Screen Size (measured diagonally)
46 inches

Supplied Accessories
Remote Control RM-Y909
Batteries (2) size AA (R6)

Optional Accessories
A/V Cable (VMC-810/820/830 HG)
Audio Cable (RKC-515HG)
Component Video Cable (VMC-10/30 HG)
Control S Cable (RK-G69HG)
AV Receiver (STR-V555ES or equivalent)
TV Stand SU-46WT5

Design and specifications are subject to change without notice.

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instructions.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

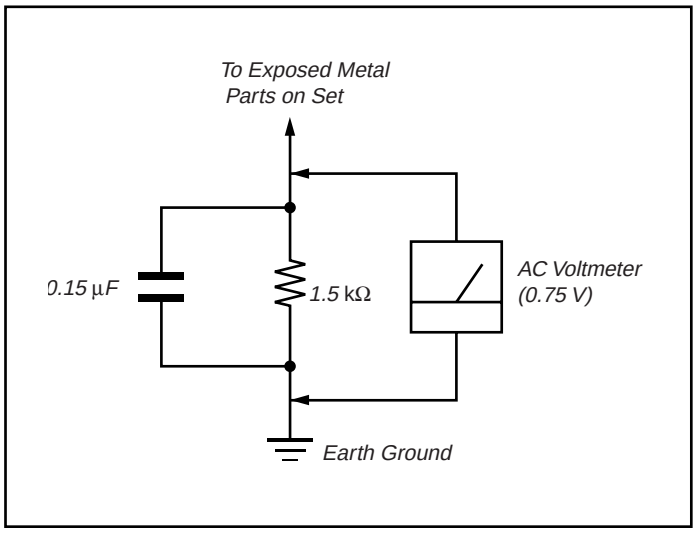


Figure A. Using an AC voltmeter to check AC leakage.

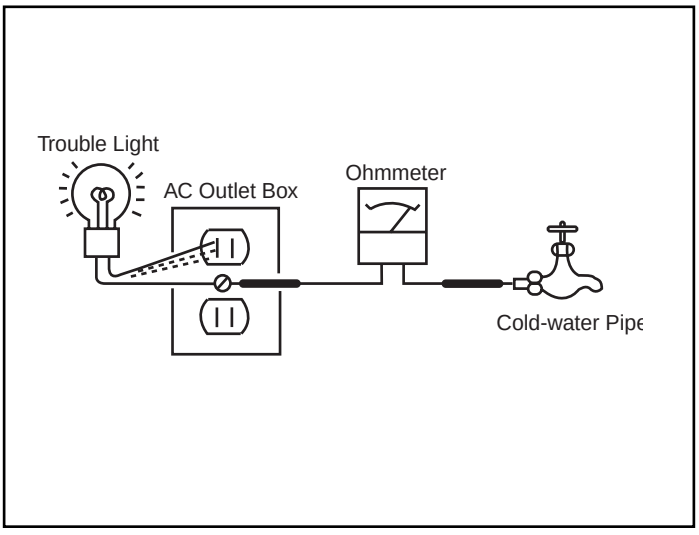


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION

Self Diagnosis Supported model

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", no error has occurred.

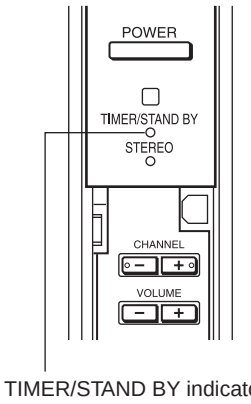
Diagnostic Item	No. of times STAND BY / TIMER lamp flashes	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	• Power cord is not plugged in. • Fuse is burned out (F6001). (G Board)	• Power does not come on. • No power is supplied to the TV. • AC Power supply is faulty.
+B overcurrent (OCP)*	2 times	• H.OUT (Q8024) is shorted. (D Board) • +B PWM (Q8035, Q8038) is shorted. (D Board)	• Power does not come on. • Load on power line shorted.
+B overvoltage (OVP)	3 times	• IC501 is faulty. (G Board) • IC5002 is faulty. (G Board)	• Has entered standby mode.
Vertical deflection stopped	4 times	• ±15V is not supplied. (D Board) • IC8003 is faulty. (A Board)	• Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted, or power supply is stopped.
White Balance Failure (Not Balanced)	5 times	• Video OUT (IC7101, IC7201, IC7301) is faulty. (CR, CG, CB Boards) • CRT drive (IC309) is faulty. (A Board) • Screen (G2) is improperly adjusted. **	• No raster is generated. • CRT Cathode current detection reference pulse output is small.
Low B OCP/OVP (Overcurrent/Overvoltage) ***	6 times	• +5 line is overloaded. (A, B Boards) • +5 line is shorted. (A, B Boards)	• No picture
Horizontal deflection stopped	7 times	• Q8035, Q8038 is shorted. (D Board)	
High-voltage error	8 times	• T8005 is faulty. (D Board)	
Audio error	9 times	• ± 19V line is shorted. (A, B Boards) • IC708 is faulty. (A Board) • PS701 or PS702 is opened. (A Board)	• No sound

* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

** Refer to Screen (G2) Adjustments in Section 2-2 of this manual

*** If TIMER or STAND BY indicator blinks six (6) times, unplug the unit and wait 10 minutes before performing the adjustment.

Display of Standby/Timer LED Flash Count



* One blink is not used for self-diagnosis.

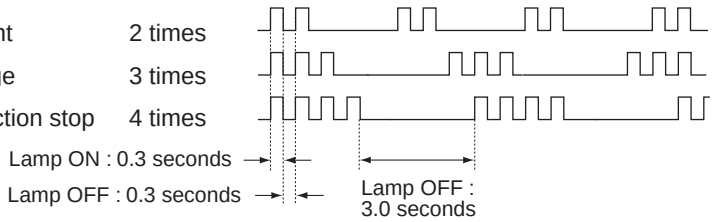
• EXAMPLE

<Diagnosis Items> <Number of Blinks>

• +B overcurrent 2 times

• +B overvoltage 3 times

• Vertical deflection stop 4 times



Release of TIMER STAND BY indicator blinking

The TIMER/STANDBY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

Self-Diagnosis Screen Displays

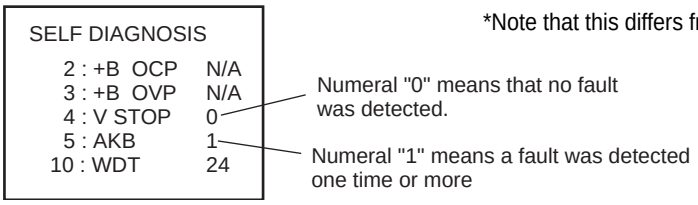
In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

Screen Display Method

Quickly press the remote command button in the following order from the standby state.

Display ⟶ Channel 5 ⟶ Sound Volume* − ⟶ Power ON

*Note that this differs from entering the service mode (sound volume +)


SELF DIAGNOSIS
2 : +B OCP N/A
3 : +B OVP N/A
4 : V STOP 0
5 : AKB 1
10 : WDT 24
Numeral "0" means that no fault was detected.
Numeral "1" means a fault was detected one time or more

Self-Diagnosis Screen Display

The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to " 0 ".

If the results display is not returned to " 0 " it will not be possible to judge a new malfunction after completing repairs.

Method of Clearing Results Display

1. Power off (Set to the standby mode.)
2. Display ⟶ Channel 5 ⟶ Sound Volume + ⟶ Power ON (Service Mode)
3. Channel 8 ⟶ ENTER (Test reset = Factory preset condition)

Method of Ending Self Diagnosis Screen

When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

Self-Diagnosis Function Operation

OCP Low B and +B line detect DET SHORT, and shut-down POWER ON RELAY.
Reset by turning power on/off. In case of +B is loaded approx. 1.5A or more, microcomputer detects it via IC5005.

OVP In case of +B becomes approx. 150V or more, POWER ON RELAY shuts down and microcomputer detects it via IC5005.
Reset by turning power on/off just the same as OCP.

Low B Occurs when set +5V is out

V Stop In the case of the V Drive disappearing, Q8001 detects it and shuts-down the POWER ON RELAY. The microcomputer detects it and causes the LED to blink.

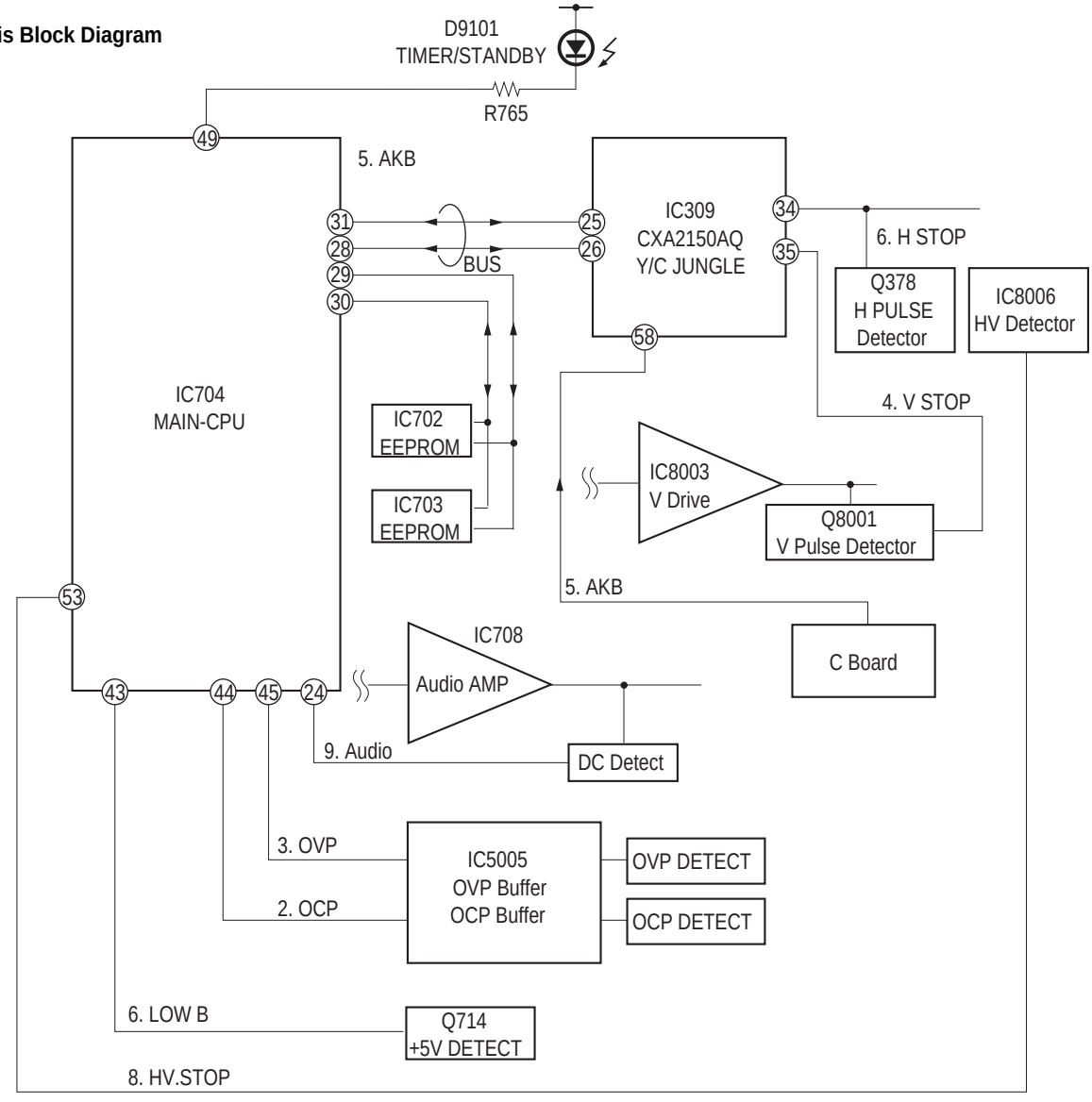
AKB IK detection. Makes LED blink when microcomputer doesn't detect IK, returns of IC309 (CXA2150AQ) 20 seconds or more.

H Stop In case H DRIVE disappears, Q378 detects it and shuts-down POWER ON RELAY.
Microcomputer receives H Stop data from Q378 and makes the LED blink.

HV Stop In case HV becomes 33kV or more, IC8006 detects it and shuts-down POWER ON RELAY.
The microcomputer makes the LED blink.

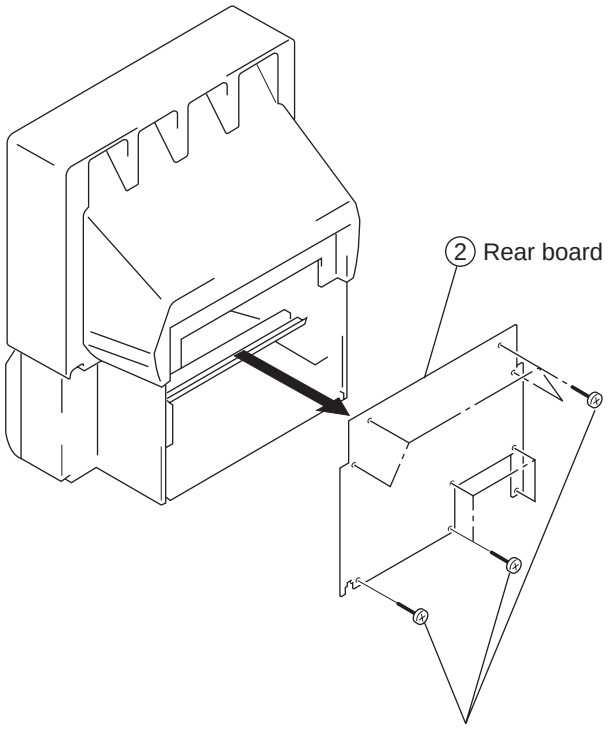
Audio In case of DC component overlaps the output of Audio Amp., the microcomputer detects it and shuts-down POWER ON RELAY.
The microcomputer makes the LED blink.

Self-Diagnosis Block Diagram

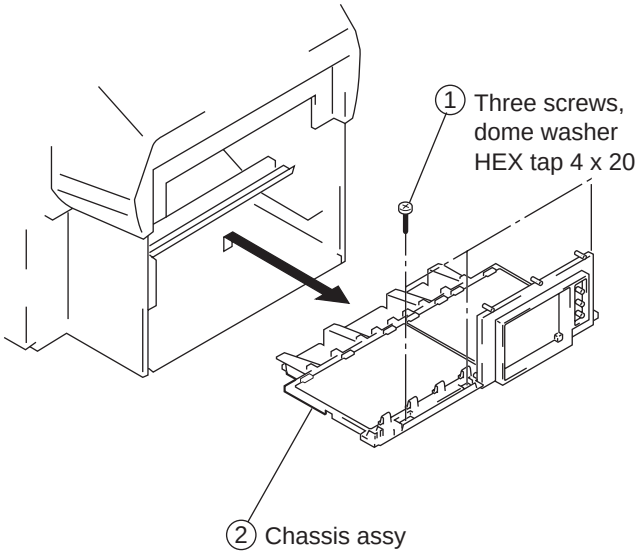


SECTION 1: DISASSEMBLY

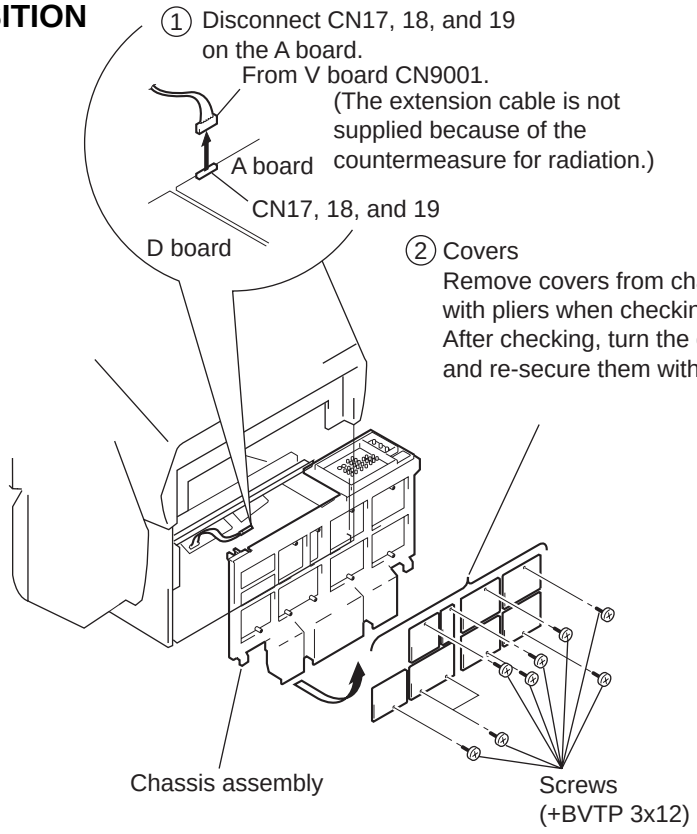
1-1. REAR BOARD REMOVAL



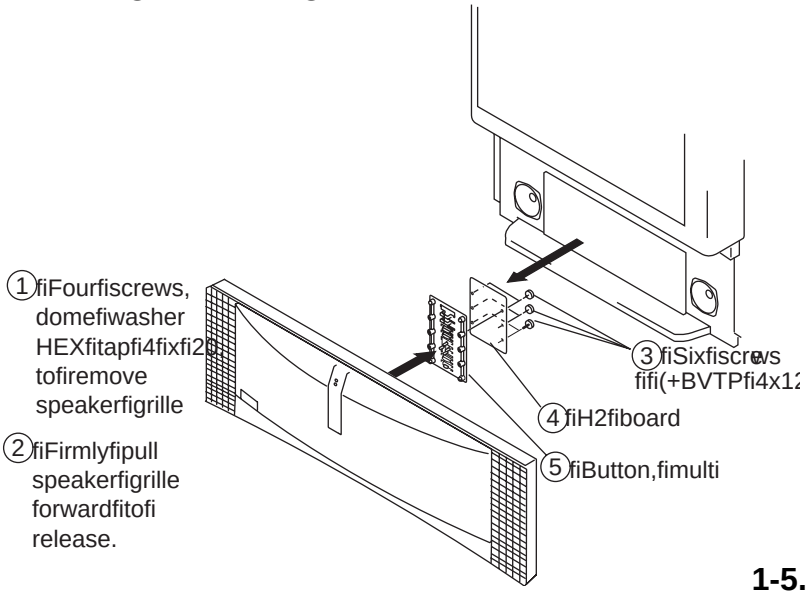
1-2. CHASSIS ASSEMBLY REMOVAL



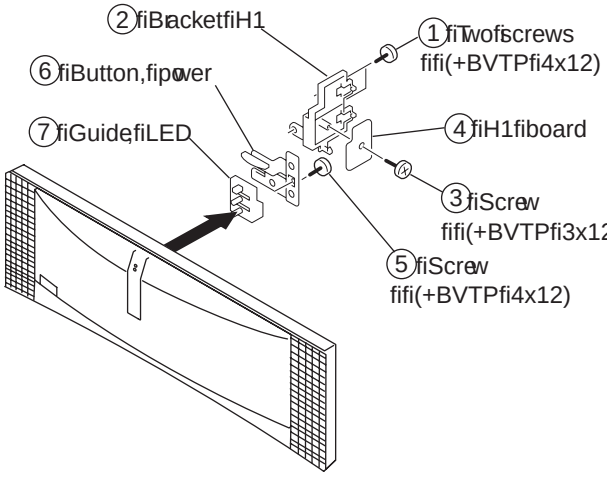
1-3. SERVICE POSITION



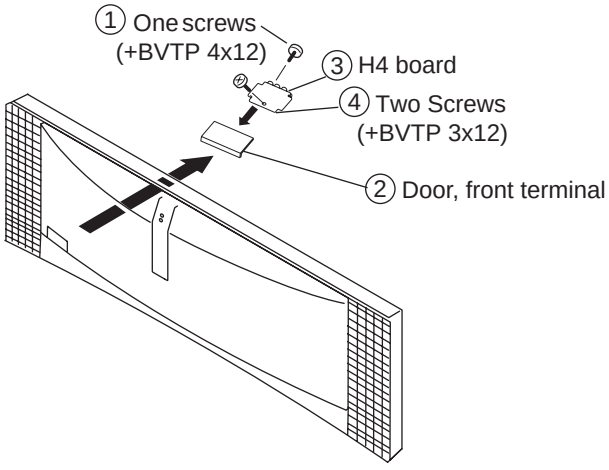
1-4. H2 BOARD REMOVAL



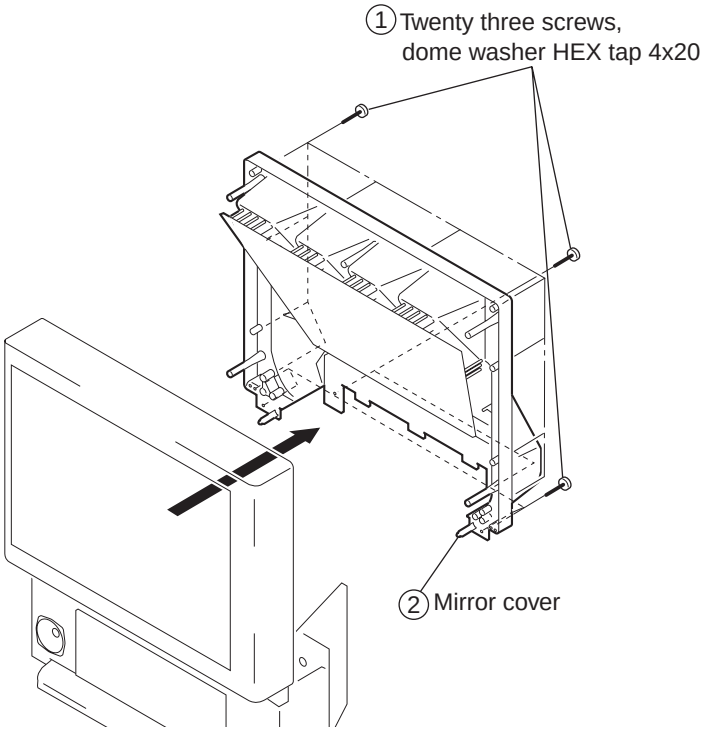
1-5. H1 BOARD REMOVAL



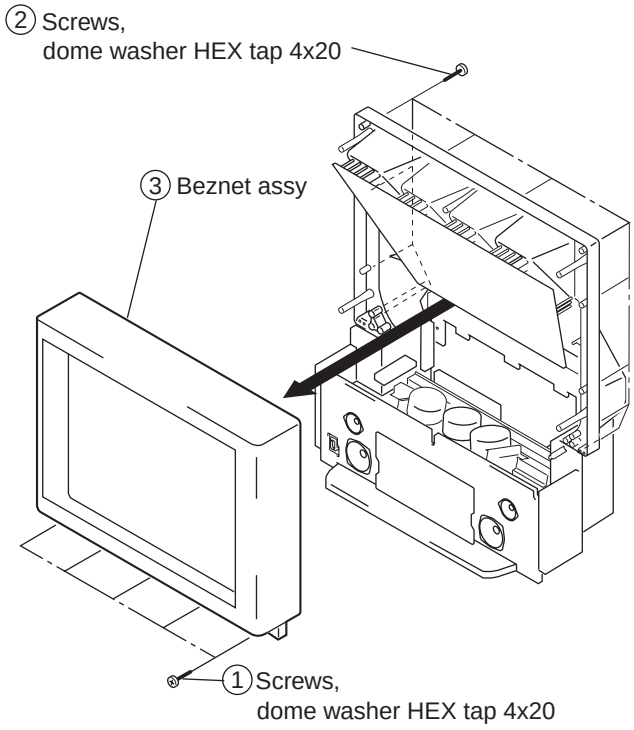
1-6. H4 BOARD REMOVAL



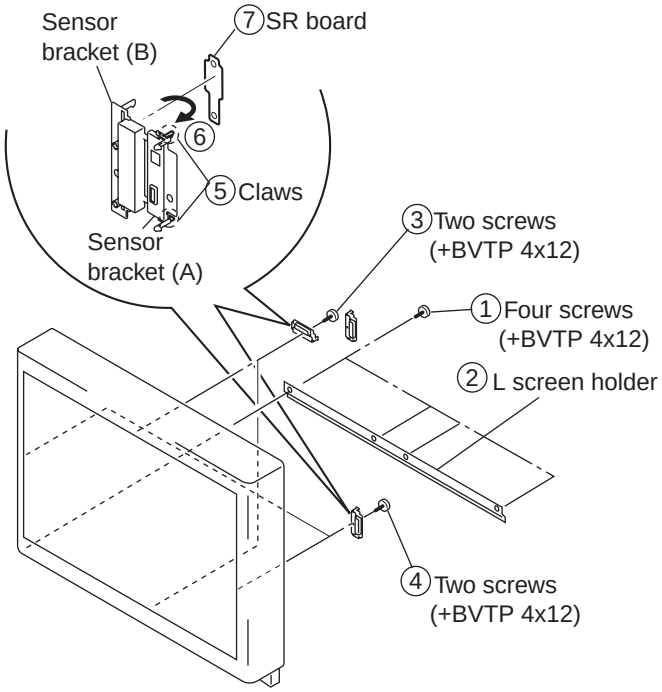
1-7. MIRROR COVER REMOVAL



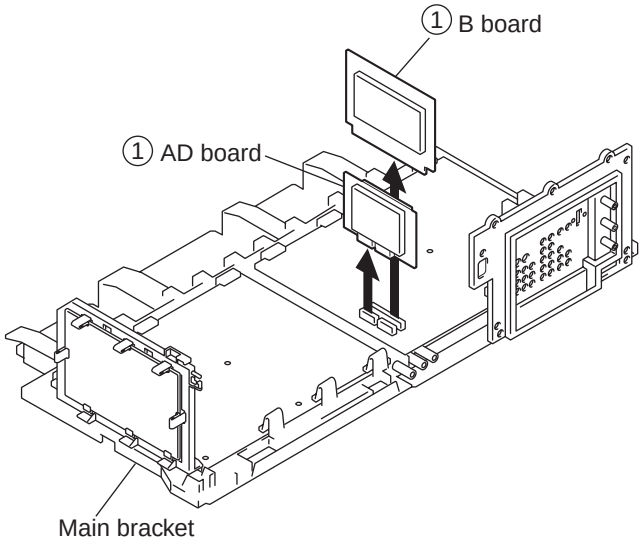
1-8. BEZNET ASSEMBLY REMOVAL



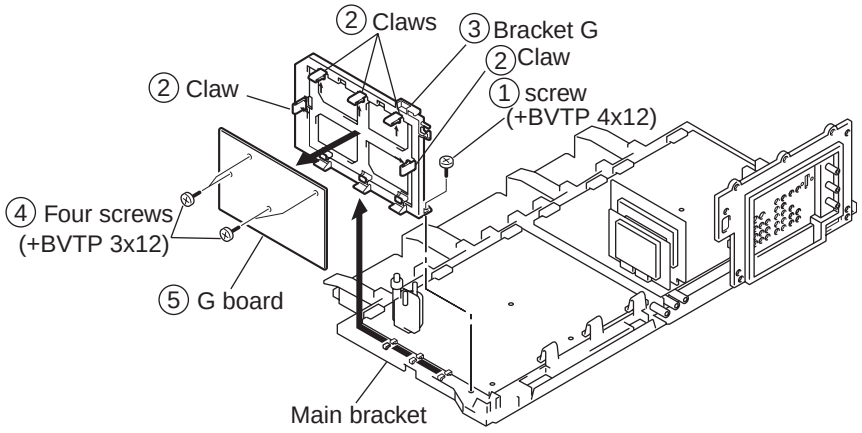
1-9. SR BOARD REMOVAL



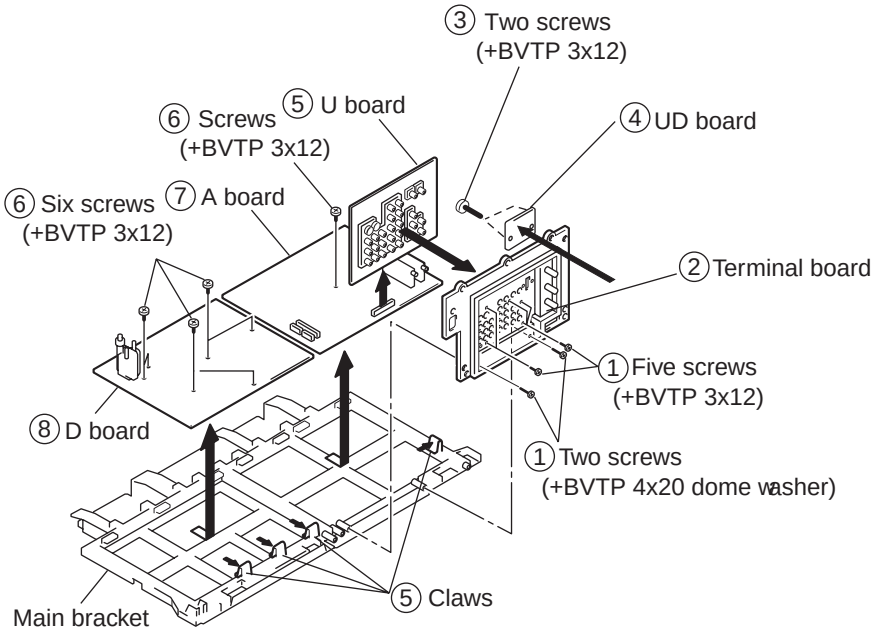
1-10.AD BOARD AND B BOARD REMOVAL



1-11.G BOARD REMOVAL

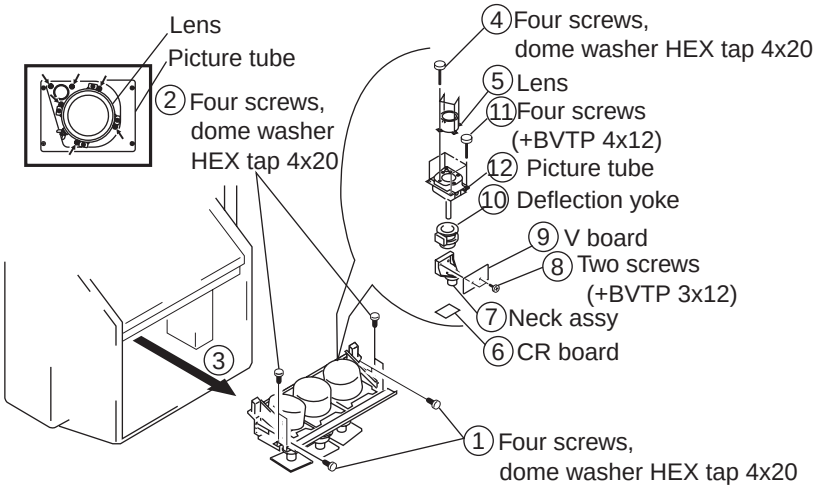


1-12.TERMINAL BOARD, A BOARD, D BOARD, U BOARD, AND UD BOARD REMOVAL



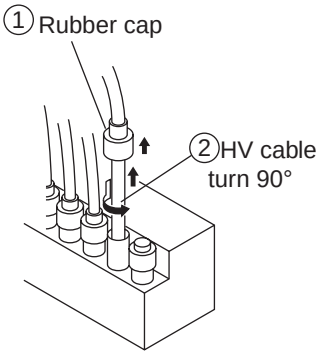
1-13.PICTURE TUBE REMOVAL

CAUTION Removing the arrow-marked screws is strictly prohibited. If removed, it may cause liquid spill.

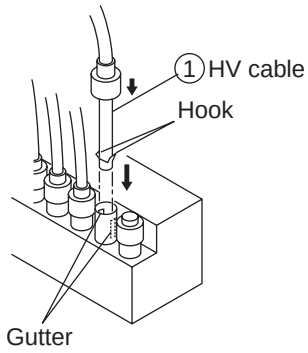


1-14.HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Removal



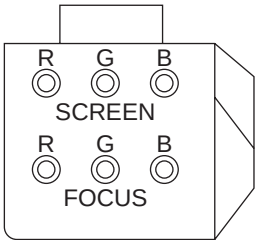
(2) Installation



SECTION 2: SET-UP ADJUSTMENTS

2-1. SCREEN VOLTAGE ADJUSTMENT (COARSE ADJUSTMENT)

1. Receive the Monoscope signal.
2. Set BRIGHTNESS to 50% and PICTURE to minimum.
3. Turn the red VR on the focus block all the way to the left and then gradually turn it to the right until the retrace line is barely visible.
4. Gradually turn the control to the left until the retrace line disappears.

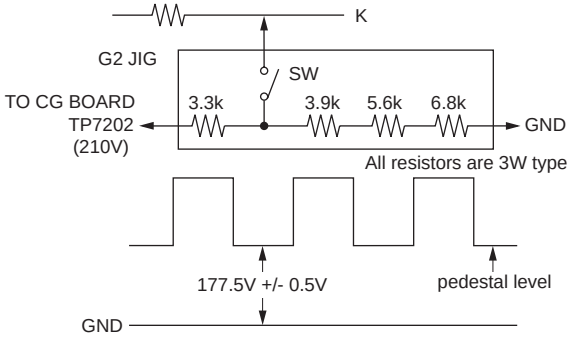


FOCUS Block

2-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

If the jig described below is available, it is recommended that the G2 Fine Mode Adjustment be performed to set the screen controls to their optimal condition. If desired, you can build the jig illustrated below, using 3-watt resistors. Please note that if the proper voltage is not obtained with the listed resistor's values, then increase or decrease one of the values in the resistor network to obtain the correct voltage.

1. Select VIDEO-1 mode no signal applied (the screen must be black).
2. Connect the G2 JIG.
3. SW on JIG.
4. Connect an oscilloscope to the TP7101(KR), TP7202(KG) and TP7301(KB) of CR board, CG board, and CB board.
5. Adjust red, green, and blue screen voltage to 177.5+/-0.5V with screen VR on the focus block.



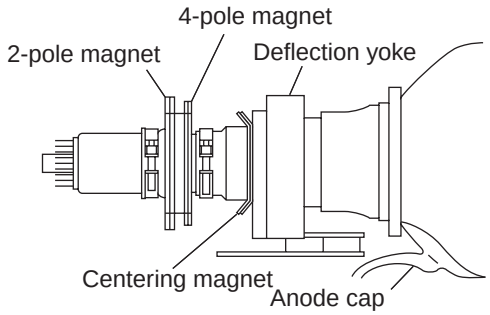
2-3. DEFLECTION YOKE TILT ADJUSTMENT

1. Connect the color bar generator monoscope pattern to Video 1 input.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Loosen the CRT's deflection yoke set screw and align the tilt of the deflection yoke so that the horizontal bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke fasten it securely to the funnel-shaped portion (neck) of the CRT.

   The tilt of the deflection yoke is aligned in the mode.
5. Cover the green and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the red CRT.

   Cover the green and red CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the blue CRT.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

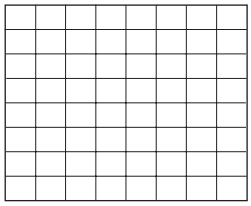


2-4. FOCUS LENS ADJUSTMENT

In this adjustment, use the remote commander while in service mode. For details on the usage of the service mode and the remote commander, please refer to section
2-10. ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER.

1. Loosen the lens screw.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Turn the green lens to adjust to the optimum focus point with the crosshatch signal.
4. Tighten the lens screw.
5. Cover the green and blue CRT lenses with the lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
6. Turn the red lens to adjust to the optimum focus point with the crosshatch signal.
7. Tighten the lens screw.
8. Cover the green and red CRT lenses with the lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
9. Turn the blue lens to adjust to the optimum focus point with the crosshatch signal.
10. Tighten the lens screw.
11. After adjusting the items:
    2-5. FOCUS VR ADJUSTMENT,
    2-6. 2-POLE MAGNET ADJUSTMENT,
    2-8. 4-POLE MAGNET ADJUSTMENT,
    Reconfirm the optimum focus point and adjust again if necessary.

* Every time 6 is pressed, the test signal changes to:
  "crosshatch+video signal" → "crosshatch+borderline (black)" → "crosshatch (black)" → "dots (black)" → off



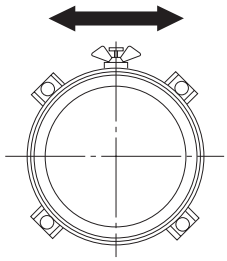
Test Signal

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

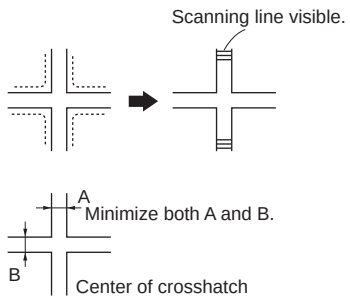
2-5. FOCUS VR ADJUSTMENT

1. Set generator to crosshatch.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Turn the green focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
4. Cover the green and blue picture lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
5. Turn the red focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
6. Cover the green and red picture lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
7. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
8. After adjusting the items:
   2-4. FOCUS LENS ADJUSTMENT,
   2-6. 2-POLE MAGNET AND CENTERING ADJUSTMENT,
   2-8. 4-POLE MAGNET ADJUSTMENT,
   Reconfirm the optimum focus point and adjust again if necessary.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

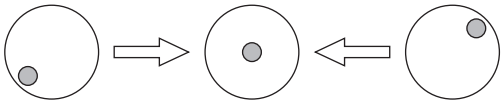


Lens



2-6. 2-POLE MAGNET AND CENTERING MAGNET ADJUSTMENT

1. Set the picture mode to PRO and picture to MAX.
2. Either select the PJED Test Pattern dot hatch signal or apply an external dot signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the focus VR on the focus block to the left (counter clockwise) and set it to overfocus to enlarge the spot.
5. Adjust the CRT's 2-pole magnet so that the small bright spot is in the center.
6. Align the focus VR on the focus block and set it for the best focus.
7. Apply a Monoscope signal to the set.
8. Adjust the H-CENTERING and V-CENTERING roughly by the centering magnets.
9. Check 2-pole magnet adjustment. If necessary repeat steps 1-6.
10. Repeat steps 1 through 9 for the red CRT covering the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and adjust the red focus control on the focus block.
11. Repeat steps 1 through 9 for the blue CRT covering the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and adjust the blue focus control on the focus block.



Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

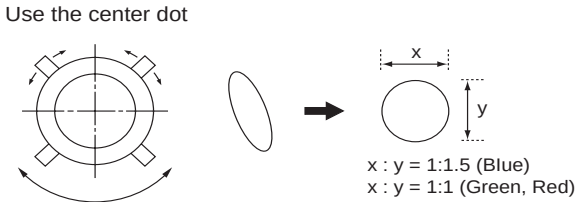
2-7. CENTERING MAGNET ADJUSTMENT

Not required - Combined with 2-6 2-Pole And Centering Magnet Adjustment.

2-8. 4-POLE MAGNET ADJUSTMENT

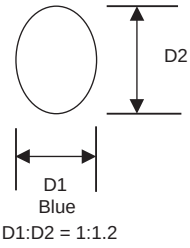
1. Set the picture mode to PRO and picture to MAX.
2. Receive the Dot signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the (green) focus VR on the focus block to the right (clockwise) and set it to under-focus to reduce the spot.
5. Adjust the 4-pole magnet so that the small spot in the center of the screen becomes round for green and red.
6. Adjust the blue spot to an oval shape X:Y=1:1.2

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.



2-9. BLUE DEFOCUS ADJUSTMENT

1. Setup: Apply a Dot Hatch Signal and set the mode to Pro Mode. Change the color temperature to Cool in the user's menu.
2. Cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the blue focus VR on the focus block to the right (clockwise) to make the round dot oval.



5. Check the flare with a high luminance signal to make sure the flare is minimal while the bright spot is located in the center, If not, readjust the 2 and 4-pole magnets.
6. Check for uniformity on a 100% IRE to an all white signal.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

2-10.ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

All of the circuit adjustments can be made by using the remote commander (RM-Y909).

NOTE : The following test equipment is required:

1. Pattern Generator (with component outputs)
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

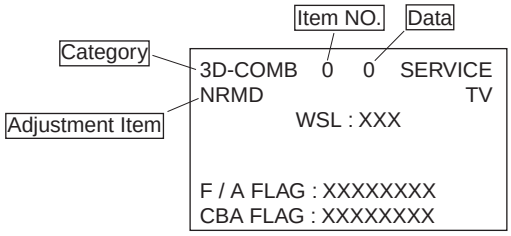
2-10-1.METHOD OF ENTERING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

1. TV must be in Standby mode. (Power off)
2. Press “DISPLAY”, “5”, “VOL +”, then “POWER” on the remote commander.

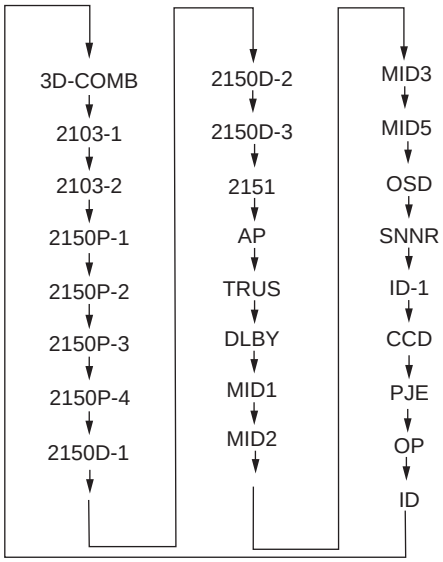
   (Press each button within 1 second of pressing the previous button.)

SERVICE MODE ADJUSTMENT



3. The screen displays the item being adjusted within that category.
4. Press 1 or 4 on the remote commander to select the adjustment item.
5. Press 3 or 6 on the remote commander to change the data.
6. Press 2 or 5 on the remote commander to select the adjustment category.

   Every time you press 2 (Category up), service mode changes in the order shown below:



7. If you want to go back to the most recently saved value, press “0” then “ENTER” to read the memory.
8. Press “MUTING” then “ENTER” to write the new adjustment data into memory.
9. When you want to exit the service mode, turn the power off.

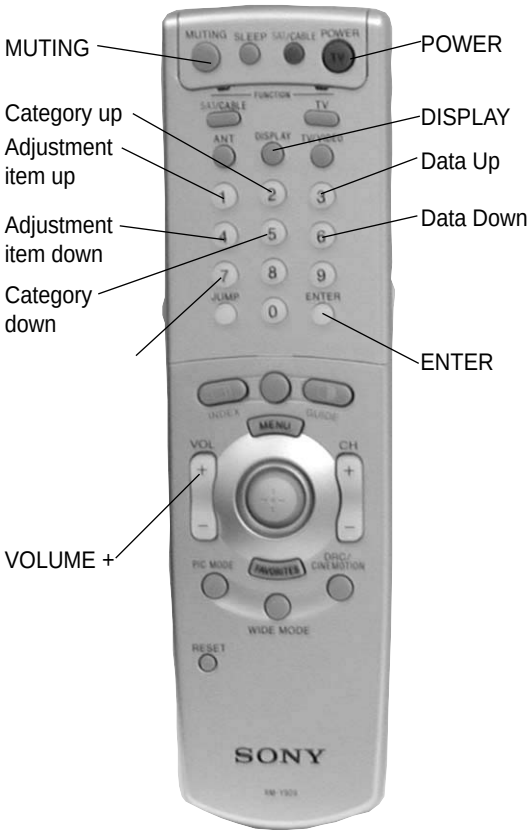
Note: Press “8” then “ENTER” on the remote commander to restore the factory settings for user controls and channel memories (this will also turn set off and then on to exit the service mode).

2-10-2.MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, turn the power off with the remote commander.
2. Turn the power ON and set to service mode.
3. Cycle through the adjusted items again and confirm that the adjustments were saved.

2-10-3.ADJUSTING BUTTONS AND INDICATOR

Note: When the PJE mode (which displays an internally generated signal) is activated, several buttons on the remote commander will have different functions than the ones listed below. Therefore, when in the PJE mode, refer to section 2-12-3 for button functions.



RM-Y909

2-11.ADJUSTABLE SERVICE DATA LISTS

Only the Adjustable registers are shown in the initial data list.

A complete set of the Initial data, Fixed and Adjustable, can be downloaded at: http://www-ec.sdp.sel.sony.com/padics/Model_Data_List.htm
Initial data is also available in an Excel format.

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
C2103_1	2	SCON	Sub contrast	RF	7	0	15	+	
				Video 1-4	7	0	15	+	[0: GA, 1: US, 2: Europe]
	3	SCOL	Sub color	RF	7	0	15	+	
				Video 1-4	7	0	15	+	
	4	SHUE	Sub hue	RF	7	0	15	+	
				Video 1-4	7	0	15	+	
	20	CBOF	Cb Offset Adjustment	P&P Left M-DRC Video1-4	34	0	63	+	
				P&P Left M-DRC Video5,6 480i	34	0	63	+	
	21	CROF	Cr Offset Adjustment	P&P Left M-DRC Video1-4	32	0	63	+	
				P&P Left M-DRC Video5,6 480i	32	0	63	+	
C2103_2	2	SCON	Sub contrast	RF	7	0	15	+	
				Video1-4	7	0	15	+	
	3	SCOL	Sub color	RF	7	0	15	+	
				Video1-4	7	0	15	+	
	4	SHUE	Sub hue	RF	7	0	15	+	
				Video1-4	7	0	15	+	
	20	CBOF	Cb Offset Adjustment	P&P Right S-DRC RF/Video1-4	32	0	63	+	
				P&P Right S-DRC Video5,6,7 480i	32	0	63	+	
	21	CROF	Cr Offset Adjustment	P&P Right S-DRC RF/Video1-4	31	0	63	+	
				P&P Right S-DRC Video5,6,7 480i	31	0	63	+	
C2150P_1	4	SBRT	Sub Bright	Common	24	0	63	+	
	5	RDRV	R output drive	Common	31	0	63	+	(lower byte)
	7	BDRV	B output drive	Common	31	0	63	+	(upper byte)
	8	RCUT	R output cutoff	Common	31	0	63	+	
	10	BCUT	B output cutoff	Common	31	0	63	+	
C2150D_1	0	VPOS	Vertical position(V_DRV signal DC bias)	Common	27	0	63	+	
	1	VSIZ	V_SIZE:Vertical size(V_DRV signal gain)	Common	50	0	63	+	
	2	VSZO	V_SIZE OFFSET	1080i	23	0	63	+	
C2150D_2	2	HSIZ	H_SIZE:Horizontal size	Wide Zoom	35	0	63	+	
				Full/Normal/Zoom	35	0	63	+	
	3	SLIN	MP_PARA_DC:Horizontal S-correction	Wide Zoom	0	0	15	+	
				Full/Normal/Zoom	0	0	15	+	
OSD	0	HPOS	OSD horizontal position	Common	18	0	255	+	
	1	HPOF	Horizontal position for Favorite mode	Common	32	0	255	+	
CCD	0	HPRM	Horizontal position of CCD(Main)	Common	49	0	255	+	
	1	HPRS	Horizontal position of CCD(Sub)	Common	49	0	255	+	▲6: 1130→1110

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE	29	ROGH	Green Horizontal Sensor 0 Ratio Offset	(common)	0	-128	127	-	
	30	RORH	Red Horizontal Sensor 0 Ratio Offset	(common)	0	-128	127	-	
	31	ROBH	Blue Horizontal Sensor 0 Ratio Offset	(common)	0	-128	127	-	
	32	R1GH	Green Horizontal Sensor 1 Ratio Offset	(common)	0	-128	127	-	
	33	R1RH	Red Horizontal Sensor 1 Ratio Offset	(common)	0	-128	127	-	
	34	R1BH	Blue Horizontal Sensor 1 Ratio Offset	(common)	0	-128	127	-	
	35	R1GV	Green Vertical Sensor 1 Ratio Offset	(common)	0	-128	127	-	
	36	R1RV	Red Vertical Sensor 1 Ratio Offset	(common)	0	-128	127	-	
	37	R1BV	Blue Vertical Sensor 1 Ratio Offset	(common)	0	-128	127	-	
	38	R2GH	Green Horizontal Sensor 2 Ratio Offset	(common)	0	-128	127	-	
	39	R2RH	Red Horizontal Sensor 2 Ratio Offset	(common)	0	-128	127	-	
	40	R2BH	Blue Horizontal Sensor 2 Ratio Offset	(common)	0	-128	127	-	
	41	R2GV	Green Vertical Sensor 2 Ratio Offset	(common)	0	-128	127	-	
	42	R2RV	Red Vertical Sensor 2 Ratio Offset	(common)	0	-128	127	-	
	43	R2BV	Blue Vertical Sensor 2 Ratio Offset	(common)	0	-128	127	-	
	44	R3GH	Green Horizontal Sensor 3 Ratio Offset	(common)	0	-128	127	-	
	45	R3RH	Red Horizontal Sensor 3 Ratio Offset	(common)	0	-128	127	-	(upper byte)
	46	R3BH	Blue Horizontal Sensor 3 Ratio Offset	(common)	0	-128	127	-	(lower byte)
	47	PTRH	Red Horiz Top Pattern Position Offset	(common)	0	-128	127	-	
	48	PTBH	Blue Horiz Top Pattern Position Offset	(common)	0	-128	127	-	
	49	PLRH	Red Horiz Left Pattern Position Offset	(common)	0	-128	127	-	
	50	PLBH	Blue Horiz Left Pattern Position Offset	(common)	0	-128	127	-	
	51	PLRV	Red Vertical Left Pattern Position Offset	(common)	0	-128	127	-	
	52	PLBV	Blue Vertical Left Pattern Position Offset	(common)	0	-128	127	-	
	53	PRRH	Red Horiz Right Pattern Position Offset	(common)	0	-128	127	-	
	54	PRBH	Blue Horiz Right Pattern Pos Offset	(common)	0	-128	127	-	
	55	PRGH	Green Vertical Right Pattern Pos Offset	(common)	0	-128	127	-	
	56	PRRV	Red Vertical Right Pattern Pos Offset	(common)	0	-128	127	-	
	57	PRBV	Blue Vertical Right Pattern Pos Offset	(common)	0	-128	127	-	
	58	PBGH	Green Horiz Bottom Pattern Pos Offset	(common)	0	-128	127	-	
	59	PBRH	Red Horiz Bottom Pattern Pos Offset	(common)	0	-128	127	-	
	60	PBBH	Blue Horiz Bottom Pattern Pos Offset	(common)	0	-128	127	-	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE	61	ERR	Auto Regi. Error code	(common)	0	0	65535	+	
	66	VUP	Sensor 0 Green Vertical Pattern Position	(common)	41	0	2047	+	
	67	VMID	Sensor 1 Green Vertical Pattern Position	(common)	505	0	2047	+	
	68	VLOW	Sensor 3 Green Vertical Pattern Position	(common)	971	0	2047	+	
	69	HLE	Sensor 1 Green Horizontal Pattern Position	(common)	55	0	4095	+	
	70	HMID	Sensor 0 Green Horizontal Pattern Position	(common)	636	0	4095	+	
	71	HRIV	Sensor 2 Green Horizontal Pattern Position	(common)	1217	0	4095	+	
	72	TEST	Auto Regi. Test Item	(common)					
	73	SFTF	Fast motion of burn prevention switch	(common)					
	74	SFTE	CRT burn prevention enable	(common)	0	0	7	+	
	75	ACTL	Account timer counter lower byte	(common)	7	0	255	+	
	76	ACTH	Account timer counter upper byte	(common)	0	0	255	+	
	77	ATTN	Auto Regi attenuation select	(common)	0	0	3	+	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE		CENT	R H Cent	Full / Normal	35	-512	511	-	
			.	Zoom / V.Comp	35	-512	511	-	
			.	WideZoom	35	-512	511	-	
			.	1080i Full	35	-512	511	-	
			R V Cent	Full / Normal	20	-512	511	-	
			.	Zoom / V.Comp	20	-512	511	-	
			.	WideZoom	20	-512	511	-	
			.	1080i Full	20	-512	511	-	
			G H Cent	Full / Normal	35	-512	511	-	
			.	Zoom / V.Comp	35	-512	511	-	
			.	WideZoom	35	-512	511	-	
			.	1080i Full	35	-512	511	-	
			G V Cent	Full / Normal	20	-512	511	-	
			.	Zoom / V.Comp	20	-512	511	-	
			.	WideZoom	20	-512	511	-	
			.	1080i Full	20	-512	511	-	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE			B H Cent	Full / Normal	35	-512	511	-	
			.	Zoom / V.Comp	35	-512	511	-	
			.	WideZoom	35	-512	511	-	
			.	1080i Full	35	-512	511	-	
			B V Cent	Full / Normal	20	-512	511	-	
			.	Zoom / V.Comp	20	-512	511	-	
			.	WideZoom	20	-512	511	-	
			.	1080i Full	20	-512	511	-	
		SKEW	R H Skew	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			R V Skew	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			G H Skew	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE			G V Skew	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			B H Skew	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			B V Skew	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
		SIZE	R H Size	Full / Normal	-100	-512	511	-	
			.	Zoom / V.Comp	-100	-512	511	-	
			.	WideZoom	-100	-512	511	-	
			.	1080i Full	-100	-512	511	-	
			R V Size	Full / Normal	-75	-512	511	-	
			.	Zoom / V.Comp	-75	-512	511	-	
			.	WideZoom	-75	-512	511	-	
			.	1080i Full	-75	-512	511	-	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE			G H Size	Full / Normal	-100	-512	511	-	
			.	Zoom / V.Comp	-100	-512	511	-	
			.	WideZoom	-100	-512	511	-	
			.	1080i Full	-100	-512	511	-	
			G V Size	Full / Normal	-75	-512	511	-	
			.	Zoom / V.Comp	-75	-512	511	-	
			.	WideZoom	-75	-512	511	-	
			.	1080i Full	-75	-512	511	-	
			B H Size	Full / Normal	-100	-512	511	-	
			.	Zoom / V.Comp	-100	-512	511	-	
			.	WideZoom	-100	-512	511	-	
			.	1080i Full	-100	-512	511	-	
			B V Size	Full / Normal	-75	-512	511	-	
			.	Zoom / V.Comp	-75	-512	511	-	
			.	WideZoom	-75	-512	511	-	
			.	1080i Full	-75	-512	511	-	
		LIN	R H Lin	Full / Normal	425	-512	511	-	
			.	Zoom / V.Comp	425	-512	511	-	
			.	WideZoom	425	-512	511	-	
			.	1080i Full	425	-512	511	-	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE			R V Lin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			G H Lin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			G V Lin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			B H Lin	Full / Normal	-425	-512	511	-	
			.	Zoom / V.Comp	-425	-512	511	-	
			.	WideZoom	-425	-512	511	-	
			.	1080i Full	-425	-512	511	-	
			B V Lin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE		KEY	R V Key	Full / Normal	120	-512	511	-	
			.	Zoom / V.Comp	120	-512	511	-	
			.	WideZoom	120	-512	511	-	
			.	1080i Full	120	-512	511	-	
			G V Key	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			B V Key	Full / Normal	-120	-512	511	-	
			.	Zoom / V.Comp	-120	-512	511	-	
			.	WideZoom	-120	-512	511	-	
			.	1080i Full	-120	-512	511	-	
		PIN	R H Pin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			R V Pin	Full / Normal	350	-512	511	-	
			.	Zoom / V.Comp	350	-512	511	-	
			.	WideZoom	350	-512	511	-	
			.	1080i Full	350	-512	511	-	

ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE			G H Pin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			G V Pin	Full / Normal	400	-512	511	-	
			.	Zoom / V.Comp	400	-512	511	-	
			.	WideZoom	400	-512	511	-	
			.	1080i Full	400	-512	511	-	
			B H Pin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			B V Pin	Full / Normal	350	-512	511	-	
			.	Zoom / V.Comp	350	-512	511	-	
			.	WideZoom	350	-512	511	-	
			.	1080i Full	350	-512	511	-	
		MLIN	R H MLin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	-150	-512	511	-	
			.	1080i Full	0	-512	511	-	

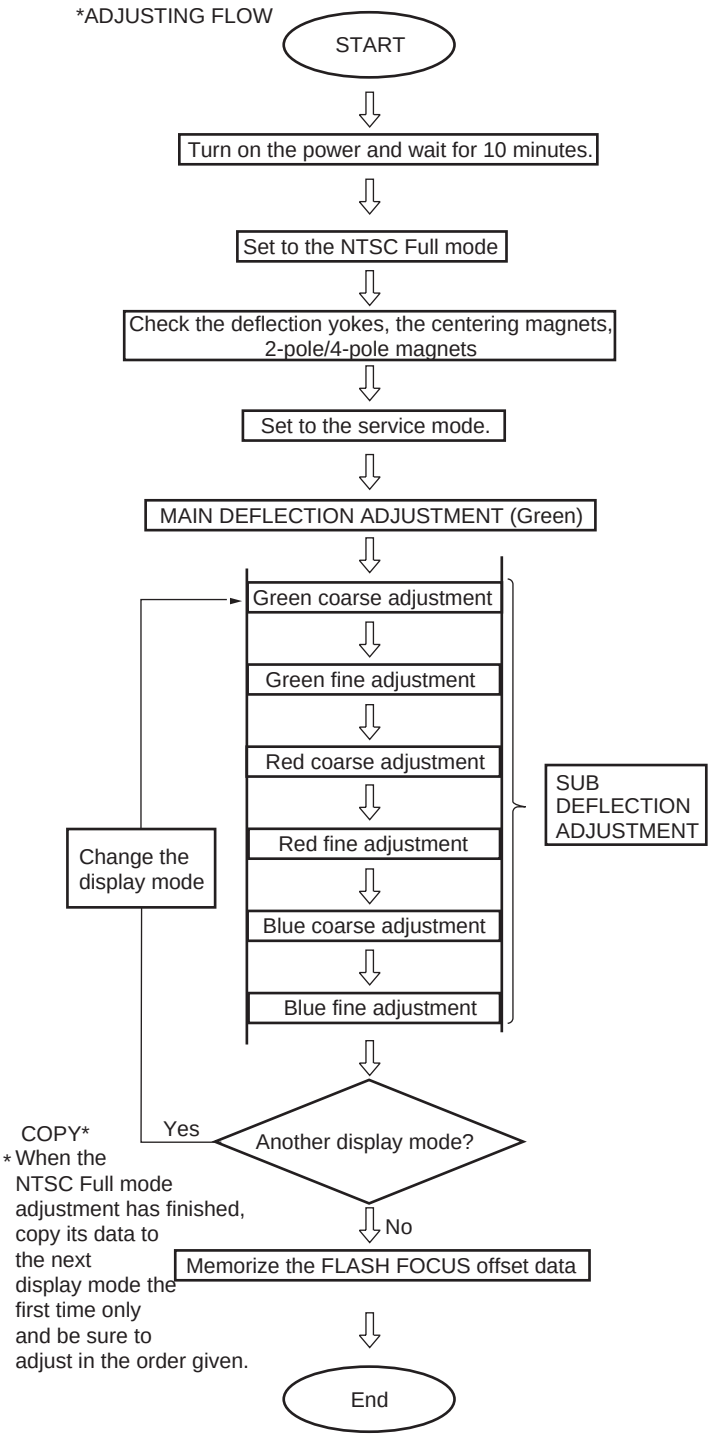
ADJUSTABLE SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	CONDITION	46WT510	MIN	MAX	+ = Unsigned - = Signed	
PJE			G H MLin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	0	-512	511	-	
			.	1080i Full	0	-512	511	-	
			B H MLin	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	150	-512	511	-	
			.	1080i Full	0	-512	511	-	
		MSIZ	R H Middle Size	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	-100	-512	511	-	
			.	1080i Full	0	-512	511	-	
			G H Middle Size	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	-200	-512	511	-	
			.	1080i Full	0	-512	511	-	
			B H Middle Size	Full / Normal	0	-512	511	-	
			.	Zoom / V.Comp	0	-512	511	-	
			.	WideZoom	-100	-512	511	-	
			.	1080i Full	0	-512	511	-	

2-11-1.ID MAP TABLE

Reg.No & Name		FUNCTION	
0	ID0	Selection of OSD languages & color systems	89
1	ID1	Selection of composite & s-video inputs	127
2	ID2	Selection of audio-related controls	239
3	ID3	Selection of basic system settings	98
4	ID4	Selection of basic system settings	203
5	ID5	Selection of advanced system settings	177
6	ID6	Selection of sub picture related settings	54
7	ID7	Selection of some reserved settings	24

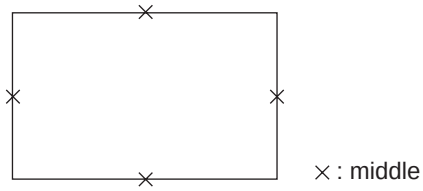
2-12.REGISTRATION ADJUSTMENT


*ADJUSTING FLOW
START
Turn on the power and wait for 10 minutes.
Set to the NTSC Full mode
Check the deflection yokes, the centering magnets, 2-pole/4-pole magnets
Set to the service mode.
MAIN DEFLECTION ADJUSTMENT (Green)
Green coarse adjustment
Green fine adjustment
Red coarse adjustment
Red fine adjustment
Blue coarse adjustment
Blue fine adjustment
SUB DEFLECTION ADJUSTMENT
Change the display mode
Another display mode?
Yes
No
Memorize the FLASH FOCUS offset data
End
COPY*
* When the NTSC Full mode adjustment has finished, copy its data to the next display mode the first time only and be sure to adjust in the order given.

2-12-1.SET-UP FOR ADJUSTMENT

MARKING

- At the 4 sides of the screen, use a tape measure to locate the middle.



DATA SETTING

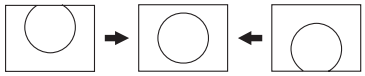
1. Set NTSC Full mode.
2. Enter the service mode, and select “PJE”.

2-12-2.MAIN DEFLECTION ADJUSTMENT

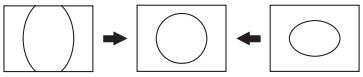
NOTE: Before this adjustment, refer to section 2-11 for PJE input data items #78-85.

1. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
2. Enter the monoscope signal and set to NTSC Full mode.
3. Enter the service mode, and select “2150D-1”.
4. Adjust “0 VPOS” and “1 VSIZ” so that the picture is displayed in the center of the screen.
5. Adjust “2VSZ0” for 1080i vertical size adjustment.

0 VPOS



1 V-Size

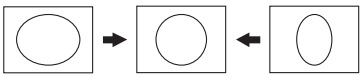


6. Select “2150D-2” and adjust “2 H-Size” so that the picture size is within the specification.

SPEC Overscan Spec. = 9%

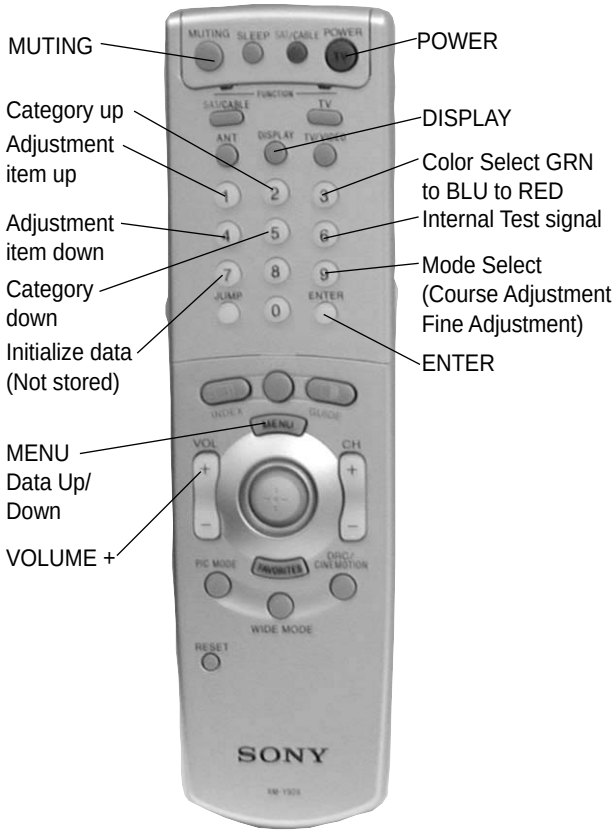
Input Signal	H SIZE	V SIZE
Monoscope	15.6 ± 0.2 sq.	11.5 ± 0.2 sq.

2 H-Size



7. Copy the data of the NTSC Full mode to the other display mode and, if necessary, adjust in the other mode.

2-12-3.OPERATION METHOD FOR PROJECTOR ENGINE MODE



RM-Y909

1. FUNCTION OF KEYS ON COMMANDER

① Changes adjustment item. (Item # moves up)
Marker moves clockwise from center to outside.
(In Fine Adjustment mode)

④ Changes adjustment item. (Item # moves down)
Marker moves counter clockwise from outside to center.
(In Fine Adjustment mode)

② Changes adjustment category.
(Category # moves up)

⑤ Changes adjustment category.
(Category # moves down)

Joystick Changes data value. (Up or down)
Marker moves clockwise from center
(up, down, right, and then left) to outside.
(In Fine Adjustment mode)

③ Changes adjustment color.
GRN →BLU →RED

⑥ Displays or changes internal test signals.
crosshatch + external signal →
crosshatch + borderline →
crosshatch only →
dot only → off

⑨ Switches adjustment mode.
Coarse adjustment model →
Fine adjustment mode

Press Switches marker moving method.

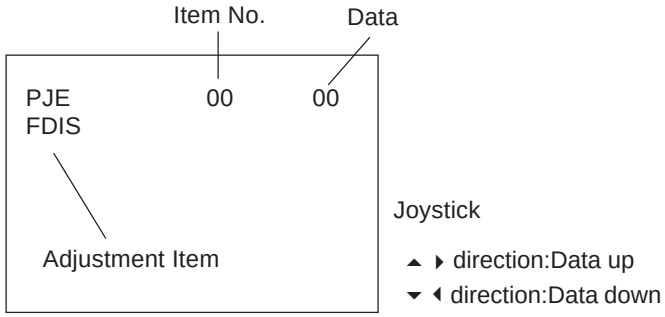
Joystick (In Fine Adjustment mode)
Joystick ▲ ▼ ◀ ▶ keys → **1** and **4** buttons

Commander Function

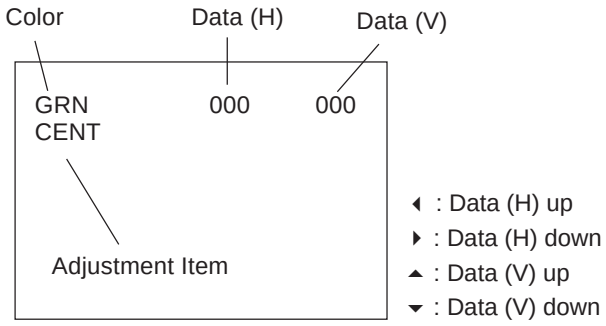
Buttons	Mode	Description
0 + ENTER	READ	Reads data to NVM.
MUTING+ENTER	WRITE	Writes data from NVM.
7 + ENTER	PJE INITIAL	Service data initialization. Not stored. (Be sure not to use usually)

2. OPERATION METHOD FOR COARSE ADJUSTMENT

1. Enter the service mode and select “PJE”.
2. Press the “1” or “4” button on the remote commander to select the item, and then use the joystick to change the data.



3. Select “GRN CENT”. When BLU or RED is displayed, press the “3” button on the remote commander to change the adjustment color in the order of GRN →BLU →RED.
4. In GRN, BLU, or RED mode, move the joystick ▲ or ▼ to change the data in vertical direction, or ◀ or ▶ to change the data in a horizontal direction.



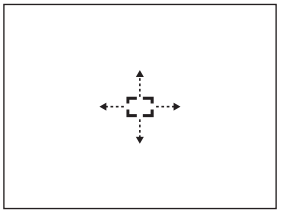
5. Before returning to the service mode, press the “MUTING” + “ENTER” buttons on the remote commander to write the data. (You must complete step 5 to write the data. If you omit step 5 the set data is returned to the data prior to the adjustment.)

3. OPERATION METHOD FOR FINE ADJUSTMENT

1. Enter the service mode and select “PJE”.
2. Select FDIS and set the data to “01” so that the data at each position can be displayed in fine adjustment mode.

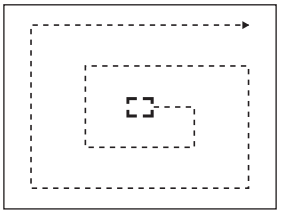
3. Press the “9” button on the remote commander and fine adjustment mode will be active where a green marker appears in the center of the screen. (In the case of GRN mode)
4. Press down on the joystick, and the marker color will be alternately switched between green (GRN mode) and white.
5. Press the “1” or “4” button on the remote commander, or use the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

* When the marker color is white:
(in this case, fine adjustment is disabled)



Use the joystick to move the marker up, down, left, or right.

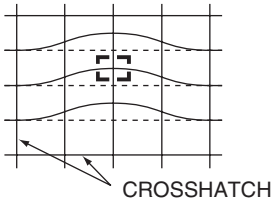
* When the marker color is green:
(GRN mode)



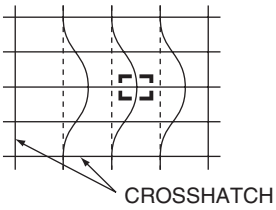
① : Moves the marker clockwise from the center to the outside.
④ : Moves the marker counter clockwise from the outside to the center.

* Fine adjustment can be made on the basis of a marker position using the joystick to move ▲ ▼ ◀ or ▶.

Move joystick ▲ direction



Move joystick ▶ direction



6. Press the “9” button on the remote commander to return to coarse adjustment mode.

2-13.PJE ADJUSTMENT (SUB DEFLECTION ADJUSTMENT)

Adjustment item	Adjustment type		
	G	R	B
	H/V*	H/V*	H/V*
CENT	O/O	O/O	O/O
SKEW	O/O	O/O	O/O
SIZE	O/O	O/O	O/O
LIN	O/O	O/O	O/O
KEY	—/O	—/O	—/O
PIN	O/O	O/O	O/O
MLIN	O/—	O/—	O/—
MSIZ	O/—	O/—	O/—

* H = Horizontal V = Vertical O = Yes — = No

Note: If the value is over the limit value, adjust these in the fine adjustment mode.

Coarse Data Limit Value:

CENT H	35 ± 170V
CENT V	20 ± 170V
SIZE H	-75 MAX
BLUE H LIN	-425 MIN
RED H LIN	425 MAX

2-13-1.ADJUSTMENT FOR NTSC FULL MODE

- The adjustment should be done in the numerical order given.

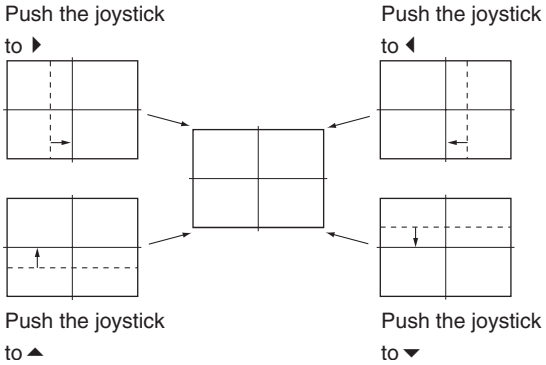
1) GREEN ADJUSTMENT

1. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

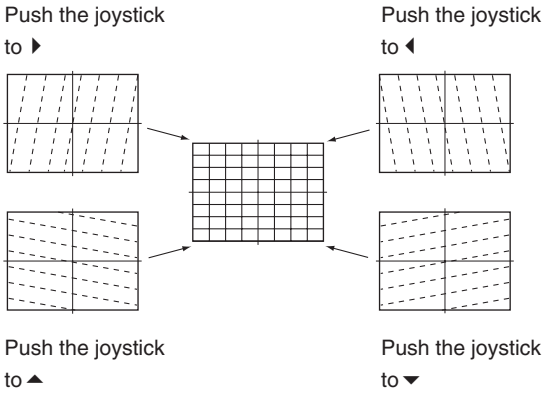
2. Enter the monoscope signal to set.
3. Select the PJE mode.
4. Press the “6” button on the remote commander to display the internal test signal (crosshatch).
5. Select “GRN CENT”, and adjust so that the pictures coincide in the center of screen.

GRN CENT (Horizontally/Vertically)



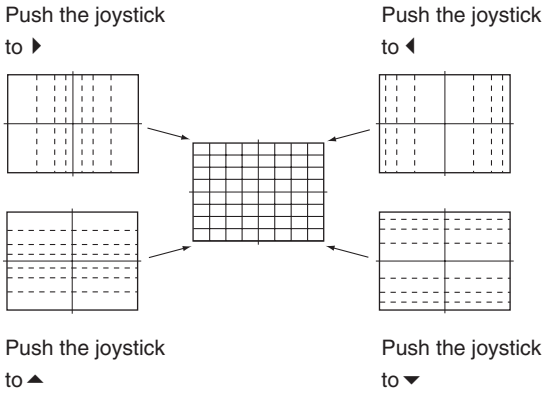
7. Select “GRN SKEW”, and correct the tilt of horizontal lines and vertical lines.

GRN SKEW (Horizontally/Vertically)



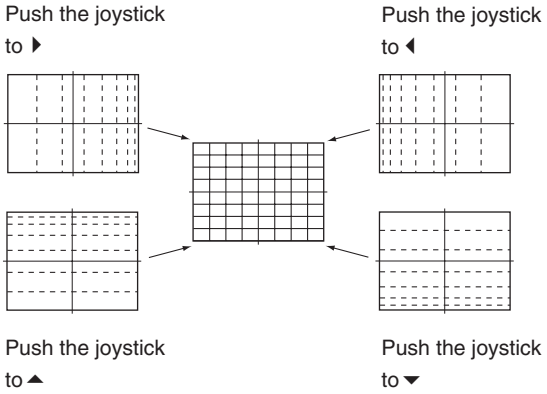
8. Select “GRN SIZE”, and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.

GRN SIZE (Horizontally/Vertically)



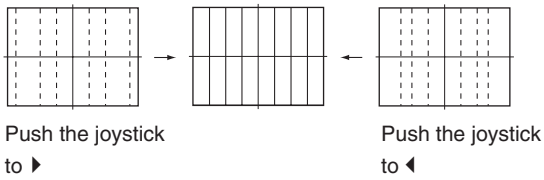
9. Select “GRN LIN”, and adjust so that each space at the right end and at the left end of screen is equal. Adjust so that each space at the top and at the bottom of screen is equal.

GRN LIN (Horizontally/Vertically)



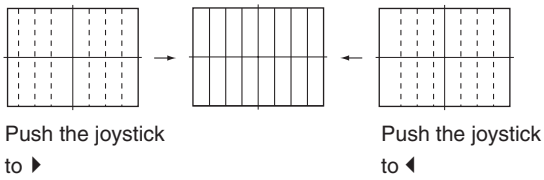
10. Select “GRN MSIZ”, and correct the space intervals for the horizontal section so the screen is equal.

GRN MSIZ (Horizontally)



11. Select “GRN MLIN”, and correct the sizes of the horizontal line so the center of the screen is symmetrical left and right.

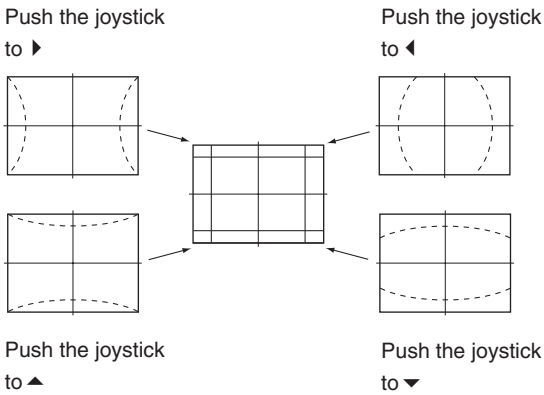
GRN MLIN (Horizontally)



Note: The SIZE and LIN, MSIZ and MLIN adjustments affect each other. If necessary, adjust these mutually.

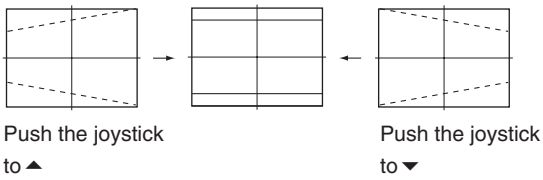
12. Select “GRN PIN”, and adjust so that right and left vertical lines on the screen become straight. Adjust so that upper and lower horizontal lines on the screen become straight.

GRN PIN (Horizontally/Vertically)



13. Select “GRN KEY”, and adjust so that upper and lower horizontal lines on the screen become parallel.

GRN KEY (Vertically)



Note: The VPIN and KEY adjustments affect each other. If necessary, adjust these mutually.

14. Press the “9” button on the remote commander to enter fine adjustment mode.

15. Make the fine adjustment so that horizontal lines and vertical lines become straight.
16. Press the “9” button on the remote commander to return to coarse adjustment mode.

2) RED ADJUSTMENT

1. Cover the blue CRT lens with a lens caps to allow only the green and red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
2. Press the “3” button on the remote commander to select RED mode.
3. Adjust the following items so that red lines overlap with green lines.
   - RED CENT (horizontally/vertically)
   - RED SKEW (horizontally/vertically)
   - RED SIZE (horizontally/vertically)
   - RED LIN (horizontally/vertically)
   - RED MSIZ (horizontally)
   - RED MLIN (horizontally)
   - RED PIN (horizontally/vertically)
   - RED KEY (vertically)
4. Press the “9” button on the remote commander to enter fine adjustment mode.
5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green lines.
6. Press the “9” button on the remote commander to return to coarse adjustment mode.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

3) BLUE ADJUSTMENT

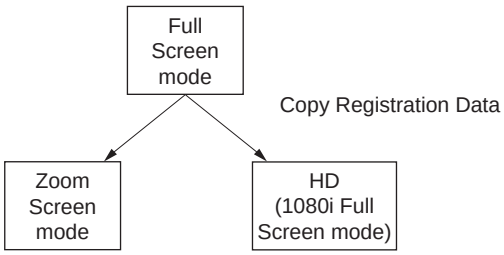
1. Remove the lens cap from the blue picture lens to display all colors.
2. Press the “3” button on the remote commander to select BLU mode.
3. Adjust the following items so that blue lines overlap with green and red lines.
   - BLU CENT (horizontally/vertically)
   - BLU SKEW (horizontally/vertically)
   - BLU SIZE (horizontally/vertically)
   - BLU LIN (horizontally/vertically)
   - BLU MSIZ (horizontally)
   - BLU MLIN (horizontally)
   - BLU PIN (horizontally/vertically)
   - BLU KEY (vertically)
4. Press the “9” button on the remote commander to enter fine adjustment mode.
5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green and red lines.
6. Press the “9” button on the remote commander to return `to coarse adjustment mode.

4) REGISTRATION DATA WRITING

1. After completing each adjustment of green, blue, and red for the NTSC Full mode press the “MUTING”+ “ENTER” buttons on the remote commander to write the registration data to the NVM.

2-13-2.COPYING ALL REGISTRATION DATA TO OTHER MODES

1. Make sure that the adjustment for NTSC Full mode are complete and the data have already been written.
2. Select the PJE mode.
3. Select Copy and set the data to “01”, and press the “MUTING”+“ENTER” buttons on the remote commander.
4. The data from the NTSC Full mode is copied to all other modes.



5. Check in the other modes and adjust as demands.

   Be sure to write data in each mode.

2-14.AUTO REGISTRATION OFFSETS

IMPORTANT
This adjustment must be performed after registration adjustment or after readjustment for any reason!

Once registration in all modes is satisfactory:

1. Darken the room environment near the set.
2. Select input of RF (with a signal) or Video1 - Video4 (with a signal), and enter Full Mode.

   WARNING: DO NOT USE 1080i SIGNAL!
3. Enter service mode and select the PJE group.
4. Press the “MUTING” + “ENTER” buttons on the remote commander to write the data for Full mode.

Important:

You must complete step 4 even if registration looks OK in Full mode and there were not any adjustments made.

5. To automatically store the offset values, press the “FLASH FOCUS” button on the front panel of the set.

   (The offset value is now stored)

   If FLASH FOCUS successfully calibrates, it displays “CALIBRATION OK.”
   If FLASH FOCUS does not successfully calibrate, an error message is displayed. (Refer to section 2-15)
6. Exit the service mode.
7. If the calibration was successful, press the “FLASH FOCUS” button out of service mode.
8. Confirm registration is OK in all modes.

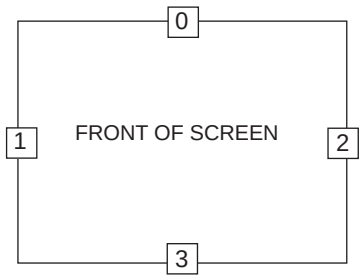
2-15.AUTO REGISTRATION ERROR CODES

If an error code is displayed after the set has been correctly adjusted, check the following items: position, tilt and sizing. If any of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns are being flashed on the screen for the sensors to read. Therefore, auto registration (called auto convergence) cannot operate properly, causing an error code to be displayed. In order for this function to operate properly correct position, tilt, and size must be adjusted properly.

ERROR CODE LIST

ERROR CODE	DESCRIPTION	NOTE
00	No Error	
10	Sensor 0 low output	Check sensor 0, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 66 VUP, 70 HMID if necessary.
11	Sensor 1 low output	Check sensor 1, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 69 HLE, 67 VMID if necessary.
12	Sensor 2 low output	Check sensor 2, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 71 HRIV, 67 VMID if necessary.
13	Sensor 3 low output	Check sensor 3, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 68 VLOW, 70 HMID if necessary.
20	Sensor 0 high output	Check sensor 0 and circuit.
21	Sensor 1 high output	Check sensor 1 and circuit.
22	Sensor 2 high output	Check sensor 2 and circuit.
23	Sensor 3 high output	Check sensor 3 and circuit.
30	V CENT or SKEW adjustment loop overflow	Check 67 VMID data and check registration condition.
31	H CENT or SKEW adjustment loop overflow	Check 70 HMID data and check registration condition.
32	H LIN or SIZE adjustment loop overflow	Check 69 HLE and 71 HRIV data and check registration condition.
40	V CENT regi data overflow	Check 67 VMID data and confirm V CENT data (all modes) is not near 511.
41	H CENT regi data overflow	Check 70 HMID data and confirm H CENT data (all modes) is not near 511.
42	V SKEW regi data overflow	Check 67 VMID data and confirm V SKEW data (all modes) is not near 511.
43	H SKEW regi data overflow	Check 70 HMID data and confirm H SKEW data (all modes) is not near 511.
44	H LIN regi data overflow	Check 69 HLE and 71 HRIV data and confirm H CENT data (all modes) is not near 511.
45	H SIZE regi data overflow	Check 69 HLE and 71 HRIV data and confirm H CENT data (all modes) is not near 511.
50	V CENT regi data overdrow	Check 67 VMID data and confirm V CENT data (all modes) is not near -512.
51	H CENT regi data overdrow	Check 70 HMID data and confirm H CENT data (all modes) is not near -512.
52	V SKEW regi data overdrow	Check 67 VMID data and confirm V SKEW data (all modes) is not near -512.
53	H SKEW regi data overdrow	Check 70 HMID data and confirm H SKEW data (all modes) is not near -512.
54	H LIN regi data overdrow	Check 69 HLE and 71 HRIV data and confirm H LIN data (all modes) is not near -512.
55	H SIZE regi data overdrow	Check 69 HLE and 71 HRIV data and confirm H SIZE data (all modes) is not near -512.
60	CENT/SKEW calibration loop overflow	Check 70 HMID and 67 VMID data and check registration condition.
61	SIZE/LIN calibration loop overflow	Check 69 HLE, 71 HRIV, 66 VUP, and 68 VLOW data and check registration condition.
70	V CENT/SKEW ratio limit	Check sensors 1 and 2, connection/wiring, circuit, increase 65 RTLM.
71	H CENT/SKEW ratio limit	Check sensors 0 and 3, connection/wiring, circuit, increase 65 RTLM.
73	H SIZE/Lin ratio limit	Check sensors 1 and 2, connection/wiring, circuit, increase 65 RTLM.
80	SIZE Limit Error	Check that horizontal SIZE data is not near 64 SZLM.

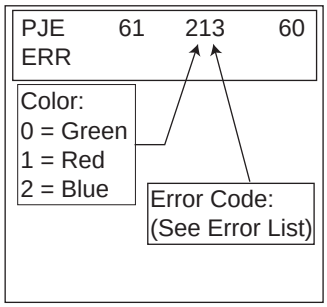
SENSOR POSITIONS



0: UPPER SENSOR
1: LEFT SENSOR
2: RIGHT SENSOR
3: LOWER SENSOR

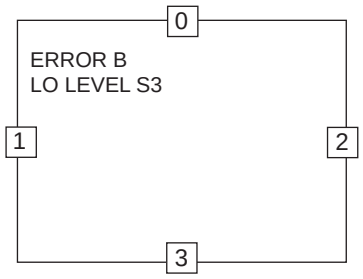
• ERROR CODE SCREEN DISPLAY

Error codes in normal (customer) mode are not displayed. You must enter PJE service mode to see the error code.



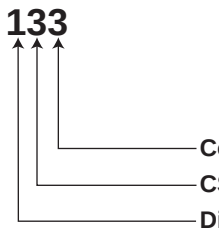
(Blue Sensor 3 Low Output)

In service mode, the error will be displayed in text format.



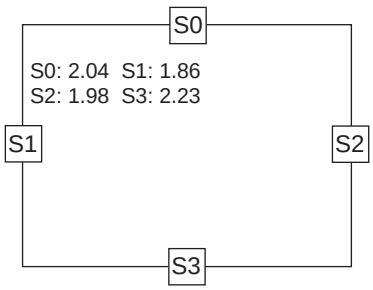
2-16.AUTO REGISTRATION DIAGNOSTICS

The TEST service item (PJE #72) can be used to determine if a sensor or sensor amplifier is working properly. It can also be used to check pattern positions.



Color: 0=Green, 1=Red, 2=Blue, 3=All
CS/ZL: 0=None, 1=Cent/Skew, 2=siZe/Lin, 3=Both
Display/Loop: 0=Display, 1:Loop

DISPLAY/ LOOP	CS/ZL	COLOR	ACTION
(0)	0	0	Normal calibration (no diagnostics).
(0)	X	X	Performs one adjustment cycle, then displays average peak voltages for the specified CS/ZL and Color.
(0)	3	3	Does nothing (can't display more than one CS/ZL or Color at a time.)
1	X	X	Adjusts specified CS/ZL and Color until a key is pressed. Useful for measuring signals with oscilloscope.



Sensor 0 peak voltage = 2.04 V, etc.

SECTION 3: SAFETY-RELATED ADJUSTMENTS

D BOARD

3-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with a ◪ on the schematic diagram always check the HV regulation, and if necessary re-adjust.

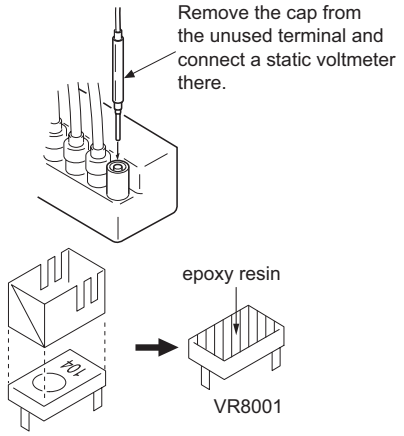
Part Replaced (◪)	Adjustment (⋈)
A BOARD: C8079, C8083, C8090, C8129, D8013, D8038, D8043, D8051, IC8006, Q8021, R8055, R8099, R8102, R8128, R8129, R8131, R8139, R8140, R8142, R8153, R8163, R8223, R8230, T8004 (LOT), T8005 (FBT), HV Block, D Board	**HV REGULATOR** VR8001

OPERATION CHECK

1. Receive the all white signal.
2. Set PIC MAX/BRT CENT.
3. Confirm that the voltage between CN8015 ① PIN and GND is less than 7.80VDC.

HV REGULATION ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Receive the all white signal.
4. Set PIC MAX/BRT CENT.
5. Confirm that the static voltmeter reading is 31.0 ± 0.4V.
   If not, adjust with VR8001 to the specified value.
6. After adjustment, put the VR cover on VR8001 (as shown below) and apply sufficient amount of epoxy resin around VR8001.



3-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with a ◪ on the schematic diagram always check the hold-down voltage and re-adjust when necessary.

Part Replaced (◪)	Adjustment (⋈)
A BOARD: C8054, C8086, C8088, C8100, C8104, C8118, C8123, C8124, C8094 D8019, D8020, D8022, D8028, D8036, FB8001, IC8008, Q8035, Q8043, R8035, R8043, R8159, R8166, R8171, R8196, R8201, T8004 (LOT), T8005 (FBT), HV Block, D Board	**HV HOLD DOWN** VR8002

OPERATION CHECK

1. Receive the dot signal.
2. Set PIC MIN/BRT MIN.
3. Confirm that the voltage between cathode of D8038 (JW171) and GND is more than 23.0V DC.
4. Using an external DC Power supply, apply the voltage shown below between cathode of D8038 (JW171) on “D” and GND, then confirm that the HV-Prot circuit works. (Raster disappears)
   Apply DC voltage: Less than 29.05V DC.

HV HOLD-DOWN ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Connect an external 10kΩ VR at CN8015 and adjust this VR so that the high voltage is 34.50kV.
4. Adjust VR8002 to the point that the HV-Prot circuit works (Raster disappears) at 34.50 ± 0.50kV reading on the static voltmeter.
5. After adjustment, put the VR cover on VR8002 and apply sufficient amount of epoxy resin around VR8002 as the same manner for VR8001.

G BOARD

3-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC501, R5032.

1. Supply 130VAC to variable autotransformer.
2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
3. Confirm the voltage of TP +B 135V is less than 137.0Vdc.
4. If step 3 is not satisfied, replace IC501 and repeat steps 1-3.

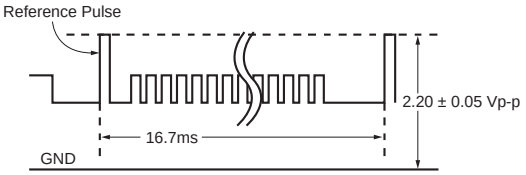
3-4. +B OVP CONFIRMATION

1. Add to low voltage power supply between to TP5001 and ground.
2. Supply 120VAC to variable autotransformer.
3. Power on the Set and receive dot signal pattern.
4. Set the PICTURE and BRIGHTNESS settings.
5. Check the OVP is activated.
   Operate :less than 2.50V

SECTION 4: CIRCUIT ADJUSTMENTS

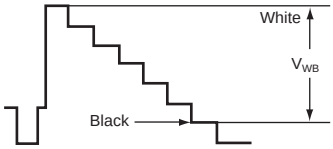
4-1. BLUE OFFSET ADJUSTMENT

1. Receive the all black (1080i, component) signal with VIDEO 5 input, and set PICTURE to maximum.
2. Connect an oscilloscope between CN5 ⑦ pin (B) on the (A board) and ground.
3. Set in the service mode and select the category “2150D-2”.
4. Adjust “SLIN” so that the waveform level is 2.20 ± 0.05Vpp.
5. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.
6. Receive the RF signal and change the wide screen mode to “Wide Zoom”. Copy the same data to “SLIN”.



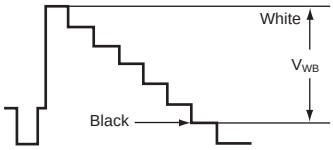
4-2. P & P SUB CONTRAST ADJUSTMENT (VIDEO) (SCON)

1. Receive the signal.
   TV terminal (sub) : Color-bar (white-75%, 7.5% setup)
   VIDEO terminal (main) : Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Minimum
   2150P-2 1 RGBS : 2
3. Set to P & P mode, and set to service mode.
4. Connect an oscilloscope between the check point and ground.
   Check points : CN5 pin ⑥
   A Board : CN5 pin ⑥
5. Select “2103-1-02” (Main scon), and adjust so that the waveform level of V_{WB} is 1.55 ± 0.04Vp-p.
6. Select “2103-2-02” (Sub scon), and adjust so that the waveform level of V_{WB} is 1.55 ± 0.04Vp-p.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



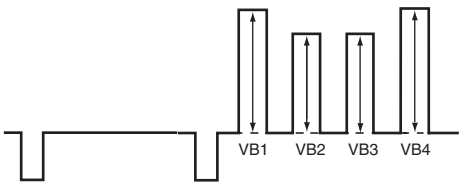
4-3. P & P SUB CONTRAST ADJUSTMENT (RF) (SCON)

1. Receive the signal.
   TV terminal (sub) : Color-bar (white-75%, 7.5% setup)
   VIDEO terminal (main) : Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Minimum
   2150P-2 1 RGBS : 2
3. Set to P & P mode, and set to service mode.
4. Connect an oscilloscope between the check point and ground.
   Check points : CN5 ⑥
   A Board : CN5 ⑥
5. Select “2103-1-02” (Main scon), and adjust so that the waveform level of V_{WB} is 1.55 ± 0.04Vp-p.
6. Select “2103-2-02” (Sub scon), and adjust so that the waveform level of V_{WB} is 1.55 ± 0.04Vp-p.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



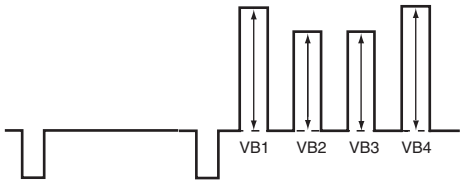
4-4. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (VIDEO) (SHUE, SCOL)

1. Receive the signal.
   TV terminal (sub) : Color-bar (white-75%, 7.5% setup)
   VIDEO terminal (main) : Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Center
   2150P-2 1 RGBS : 7
3. Set to P & P mode, and set to service mode.
4. Connect an oscilloscope between pin ⑦ of CN5 (A board) connector and ground.
5. Select “2103-1-03 SCOL, -04 SHUE” (Main), and adjust them to have VB1 ≤ VB4 and VB2 ≤ VB3 in the waveform levels.
6. Select “2103-2-03 SCOL, -04 SHUE” (Sub), and adjust them to have VB1 ≤ VB4 and VB2 ≤ VB3 in the waveform levels.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



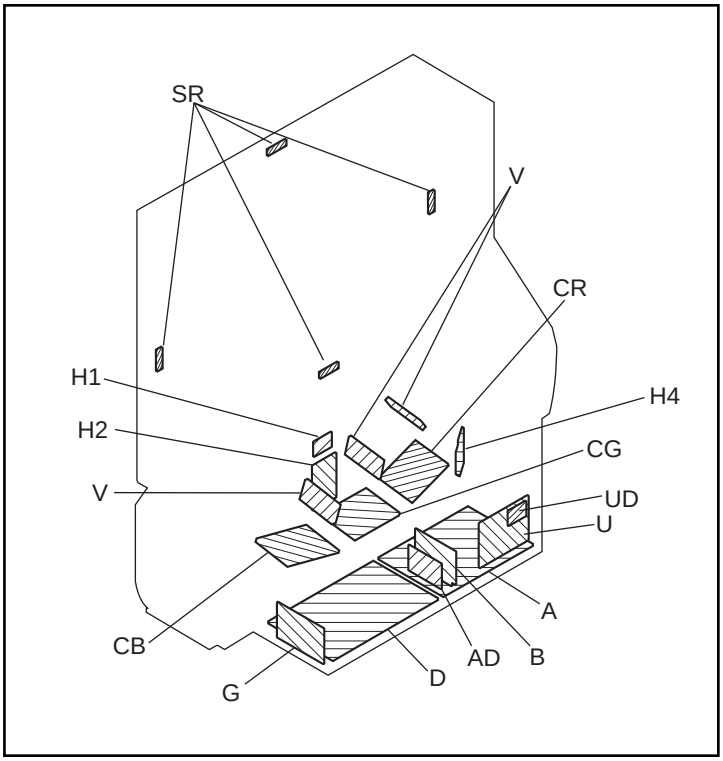
4-5. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (RF) (SHUE, SCOL)

1. Receive the signal.
   TV terminal (main) : Color-bar (white-75%, 7.5% setup)
   VIDEO terminal (sub) : Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Center
   2150P-2 1 RGBS : 7
3. Set to P & P mode, and set to service mode.
4. Connect an oscilloscope between pin ⑦ of CN5 (A board) connector and ground.
5. Select “2103-1-03 SCOL, -04 SHUE” (Main), and adjust them to have VB1 ≤ VB4 and VB2 ≤ VB3 in the waveform levels.
6. Select “2103-2-03 SCOL, -04 SHUE” (Sub), and adjust them to have VB1 ≤ VB4 and VB2 ≤ VB3 in the waveform levels.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. K=1000, M=1000k

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_8$ W in chip resistance.

: nonflammable resistor.

: fusible resistor.

: internal component.

: panel designation and adjustment for repair.

: earth ground

: earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a NTSC color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+ line

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.

(Refer to adjustments in Sections 3-1 and 3-2.)

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (◪)	Adjustment (⋈)
A BOARD: C8079, C8083, C8090, C8129, D8013, D8038, D8043, D8051, IC8006, Q8021, R8055, R8099, R8102, R8128, R8129, R8131, R8139, R8140, R8142, R8153, R8163, R8223, R8230, T8004 (LOT), T8005 (FBT), HV Block, D Board	**HV REGULATOR** VR8001
A BOARD: C8054, C8086, C8088, C8100, C8104, C8118, C8123, C8124, C8094 D8019, D8020, D8022, D8028, D8036, FB8001, IC8008, Q8035, Q8043, R8035, R8043, R8159, R8166, R8171, R8196, R8201, T8004 (LOT), T8005 (FBT), HV Block, D Board	**HV HOLD DOWN** VR8002

REFERENCE INFORMATION

RESISTOR : RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
: ※ ADJUSTMENT RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR : TA TANTALUM
: PS STYROL
: PP POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

The symbol ▮▭ indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole ▮▭ indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

Terminal name of semiconductors in silk screen printed circuit (*)

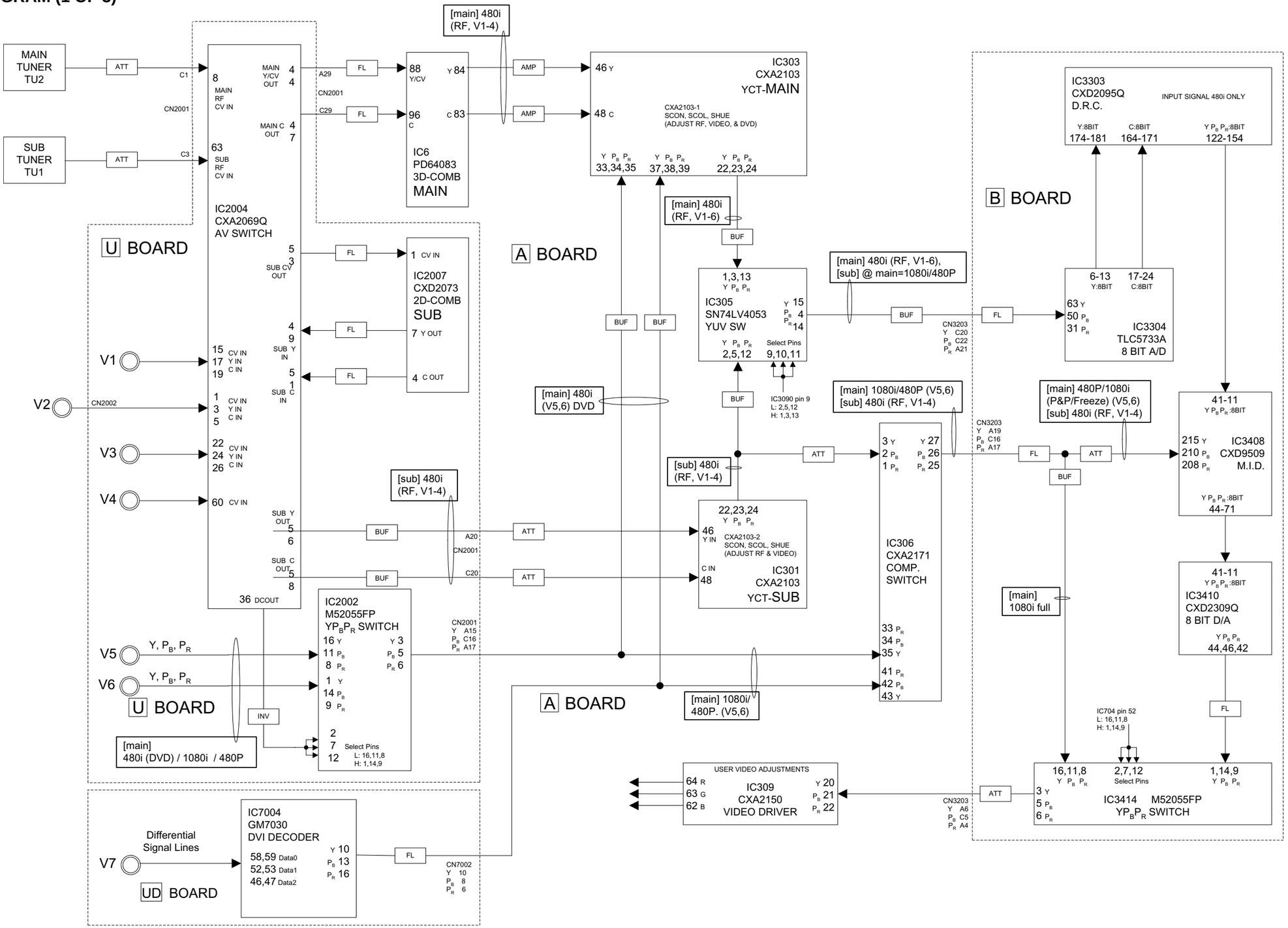
	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode — Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Cathode Anode Anode Cathode Anode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		☐ Source ☐ Drain ☐ Gate	
⑯	Transistor		☐ Emitter ☐ Collector ☐ Base	
⑰	Transistor		C2 B1 E1 E2 B2 C1	
⑱	Transistor		C1 B2 E2 E1 B1 C2	
⑲	Transistor		C1 B2 E2 E1 B1 C2	
⑳	Transistor		C1 B2 E2 E1 B1 C2	
㉑	Transistor		E2 B1 E1 C2 C1(B2)	
㉒	Transistor		(B2) B1 E1 E2 C1 C2	
㉓	Transistor		(B2) E2 E1 B1 C2 C1	
-	Discrete semiconductor			

(Chip semiconductors that are not actually used are included.)

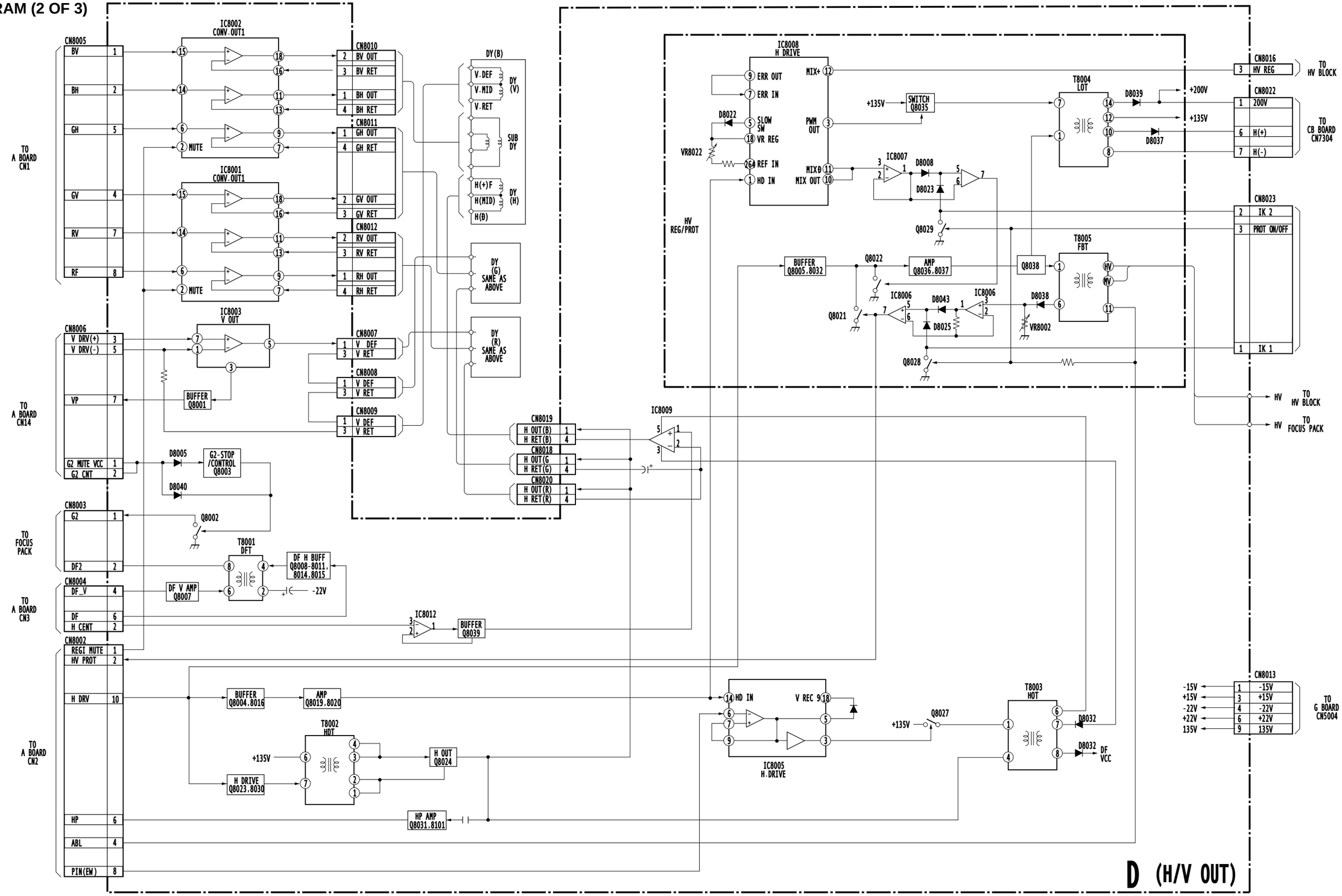
Ver.1.6

5-3. BLOCK DIAGRAMS

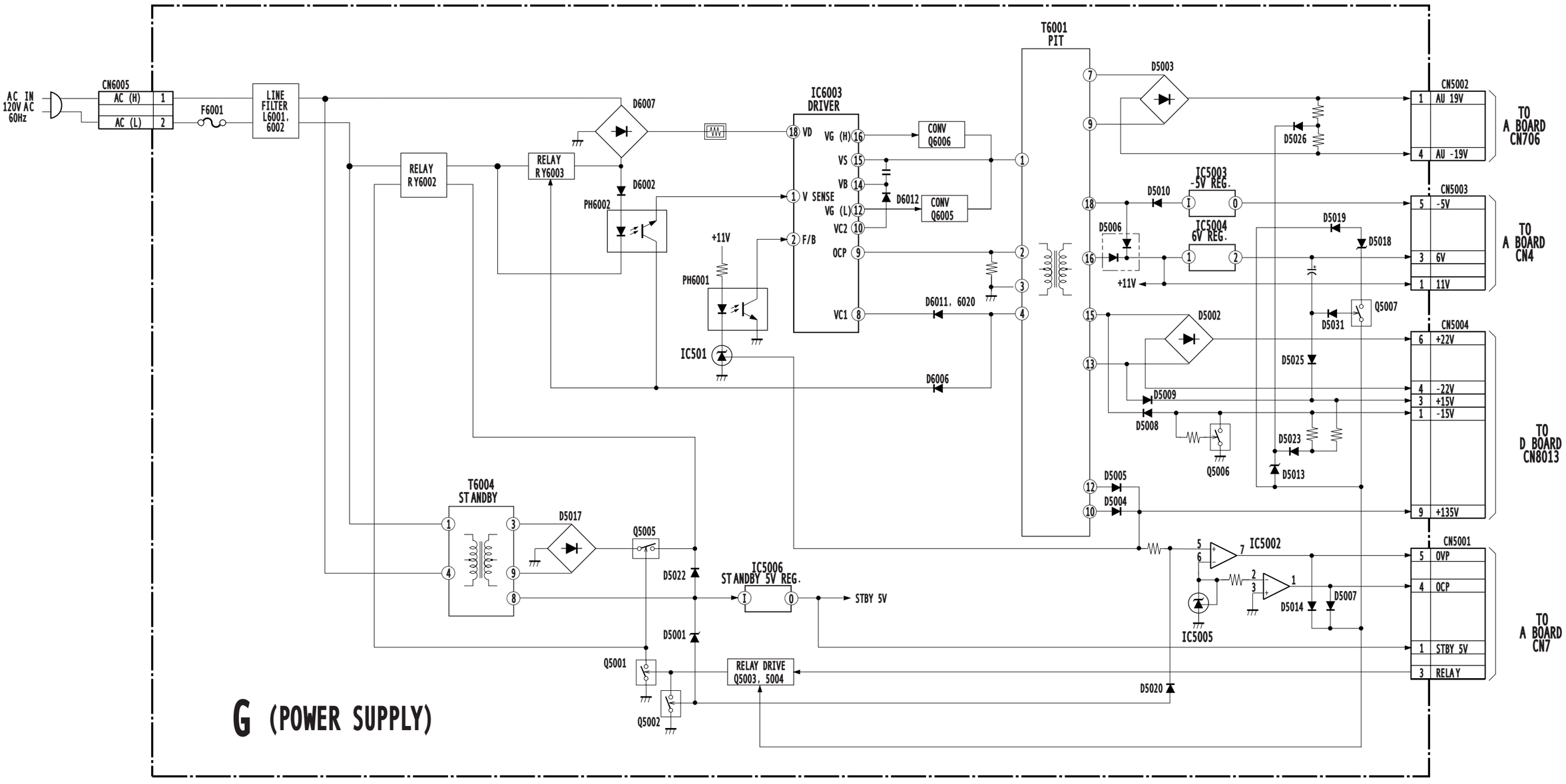
BLOCK DIAGRAM (1 OF 3)



BLOCK DIAGRAM (2 OF 3)

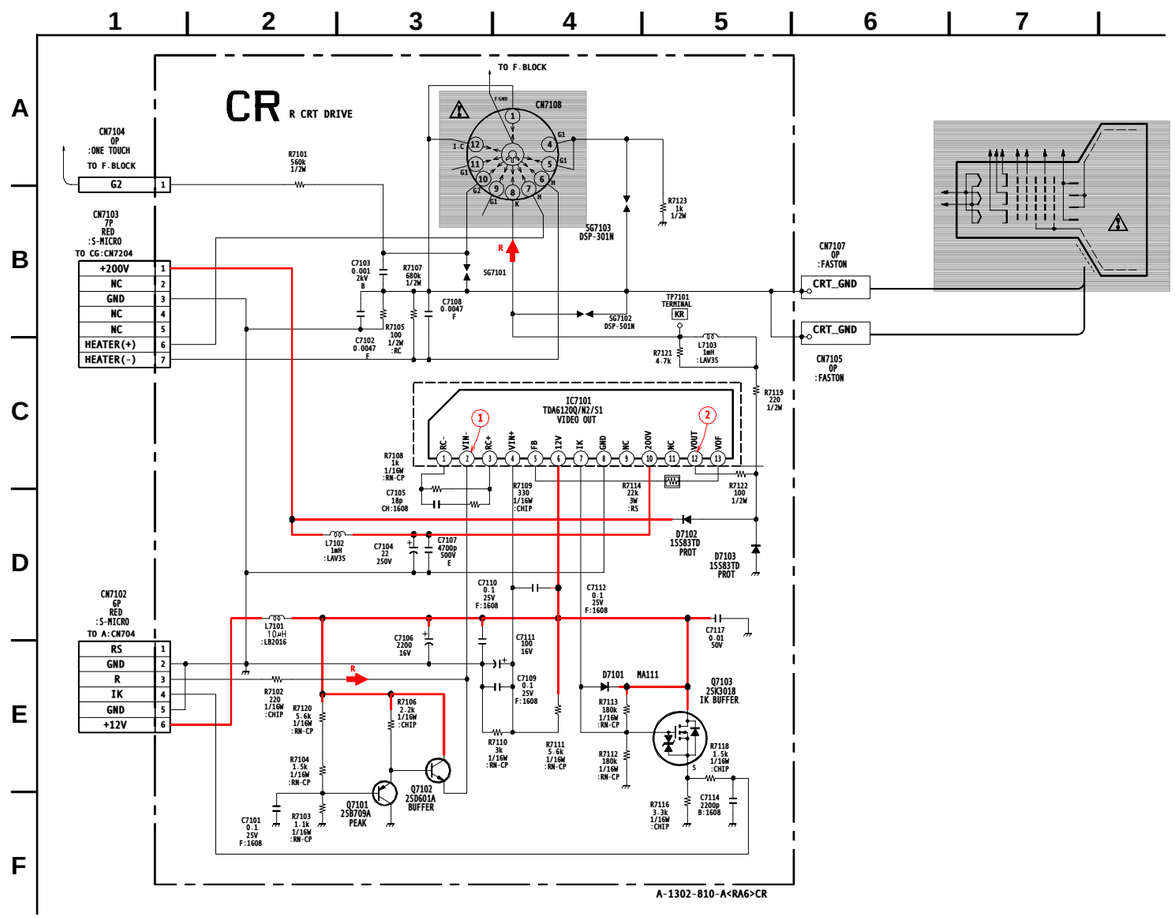


BLOCK DIAGRAM (3 OF 3)

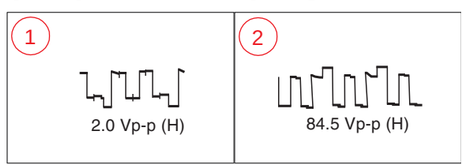


5-4. SCHEMATICS AND SUPPORTING INFORMATION

CR BOARD SCHEMATIC DIAGRAM



CR BOARD WAVEFORMS



CR BOARD IC VOLTAGE LIST

IC7101			
PIN	VOLT	PIN	VOLT
1	2.0	8	GND
2	2.7	9	N/C
3	3.4	10	200.0
4	4.1	11	N/C
5	2.6	12	157.7
6	12.0	13	158.2
7	7.0		

All voltages are in V.

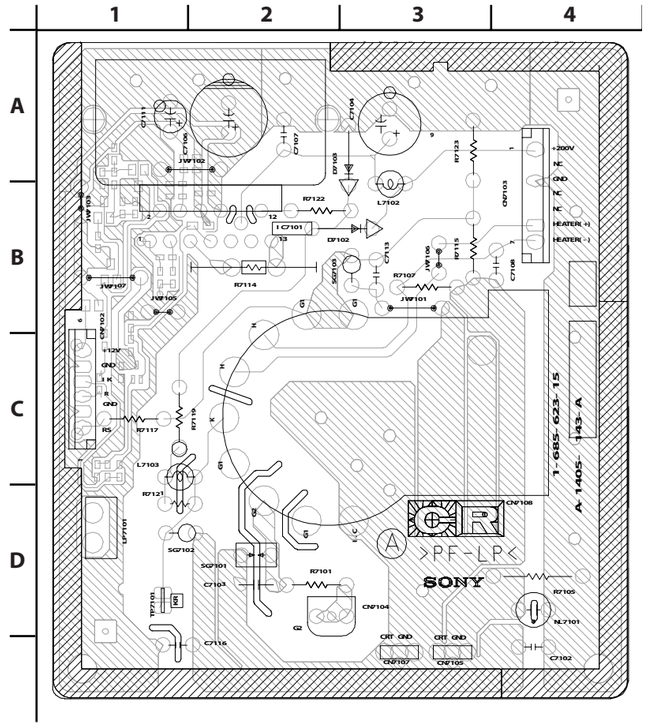
CR BOARD TRANSISTOR LIST

	B	C	E
Q7101	1.7	GND	2.3
Q7102	2.3	12.0	2.7

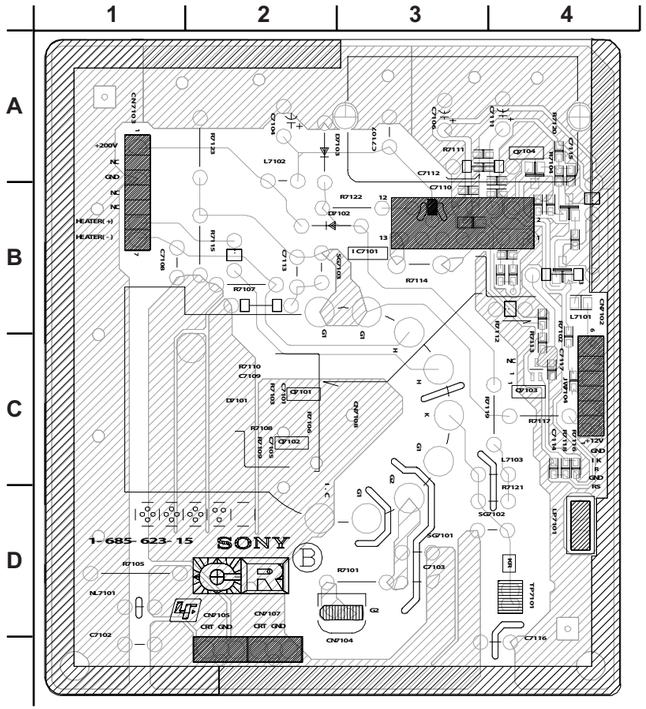
	G	D	S
Q7103	7.0	12.0	5.7

All voltages are in V.

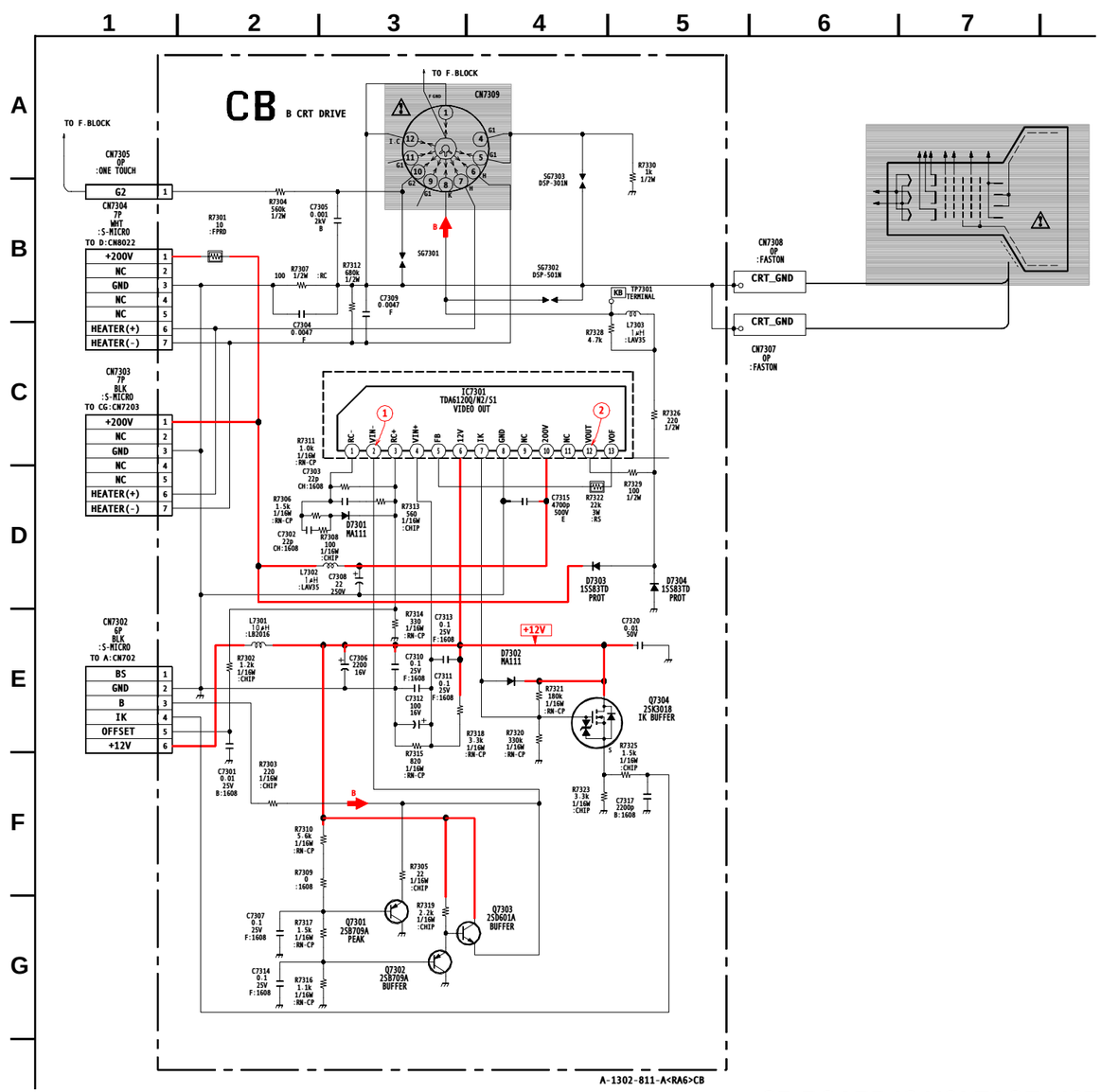
CR [R CRT DRIVE]
COMPONENT SIDE



CR [R CRT DRIVE]
CONDUCTOR SIDE



CB BOARD SCHEMATIC DIAGRAM



CB BOARD WAVEFORMS

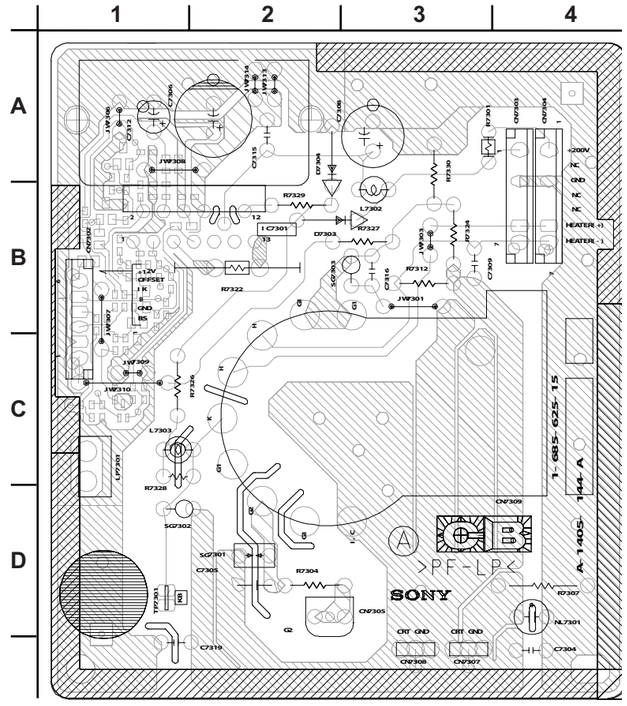
1

1.9 Vp-p (H)

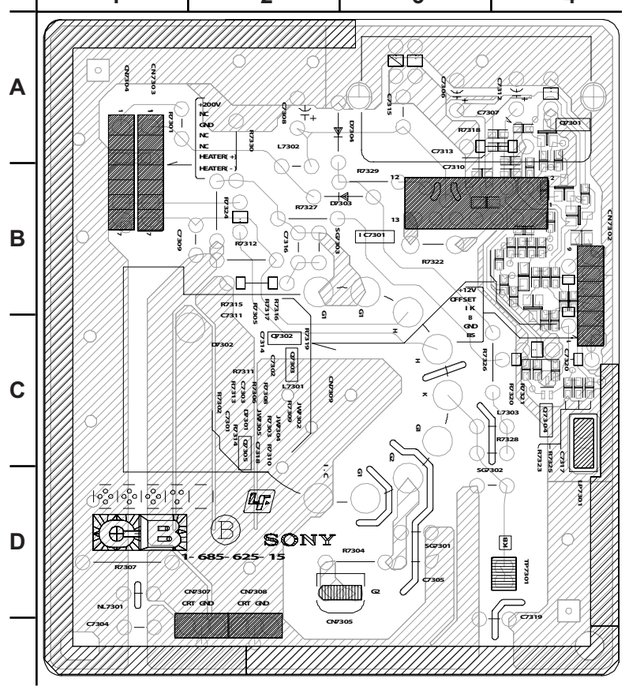
2

94.0 Vp-p (H)

CB [B CRT DRIVE] COMPONENT SIDE



CB [B CRT DRIVE] CONDUCTOR SIDE



CB BOARD IC VOLTAGE LIST

IC7301			
PIN	VOLT	PIN	VOLT
1	2.1	8	GND
2	2.9	9	N/C
3	1.6	10	200.0
4	2.9	11	N/C
5	2.5	12	161.8
6	12.0	13	144.5
7	7.3		

All voltages are in V.

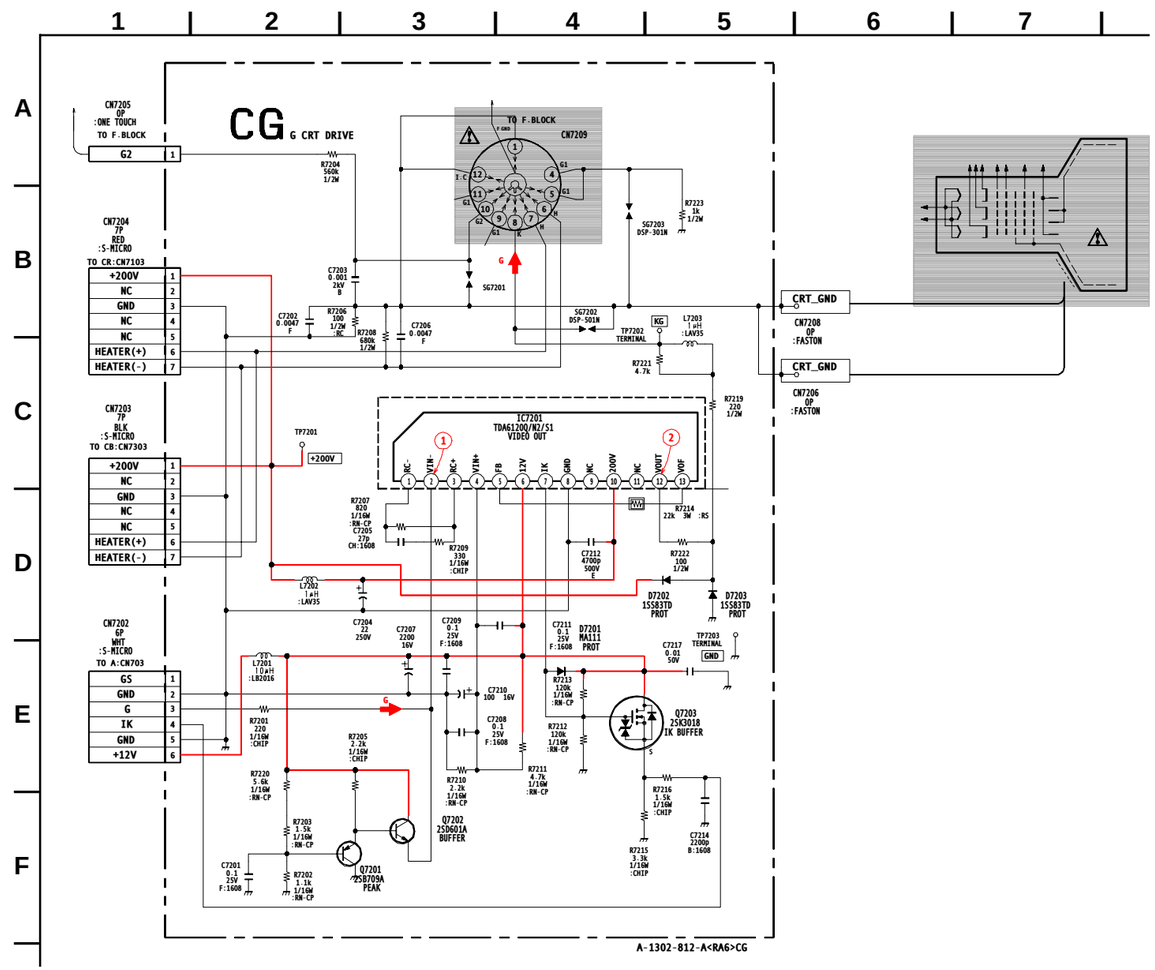
CB BOARD TRANSISTOR LIST

	B	C	E
Q7301	3.9	GND	3.0
Q7302	1.7	GND	2.4
Q7303	2.4	12.0	2.9

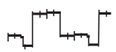
	G	D	S
Q7304	7.3	12.0	6.0

All voltages are in V.

CG BOARD SCHEMATIC DIAGRAM



CG BOARD WAVEFORMS

1  2.0 Vp-p (H)	2 101.5 Vp-p (H)

CG BOARD IC VOLTAGE LIST

IC7201			
PIN	VOLT	PIN	VOLT
1	1.9	8	GND
2	2.6	9	N/C
3	3.1	10	200.0
4	3.8	11	N/C
5	2.5	12	155.1
6	12.0	13	159.2
7	7.6		

All voltages are in V.

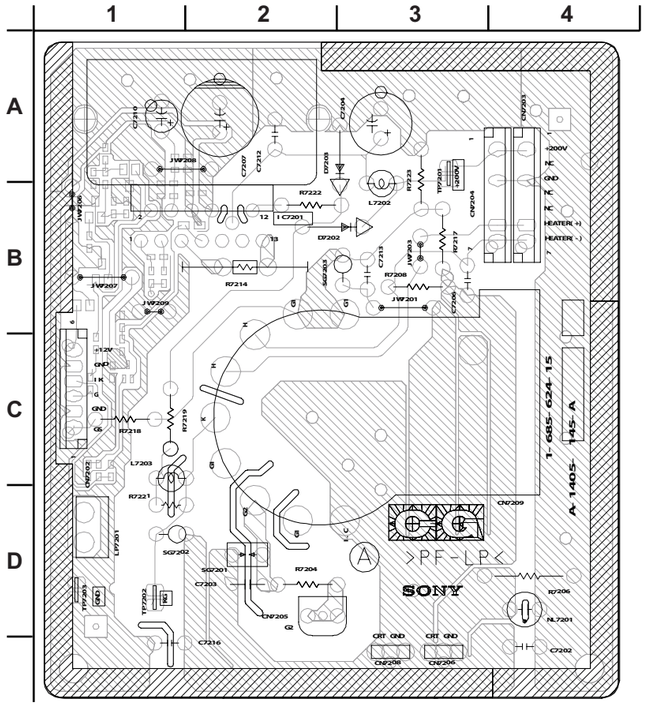
CG BOARD TRANSISTOR LIST

	B	C	E
Q7201	1.7	GND	2.3
Q7202	2.3	12.0	2.6

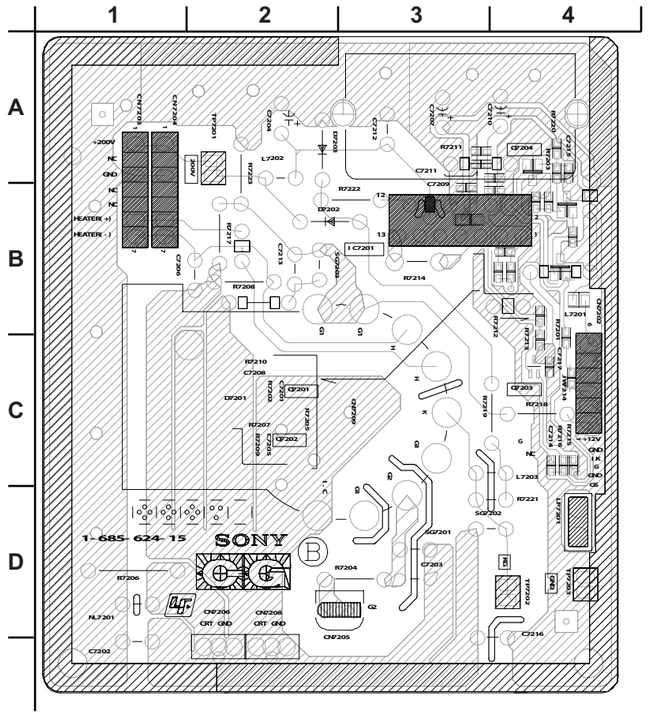
	G	D	S
Q7203	7.6	12.0	6.3

All voltages are in V.

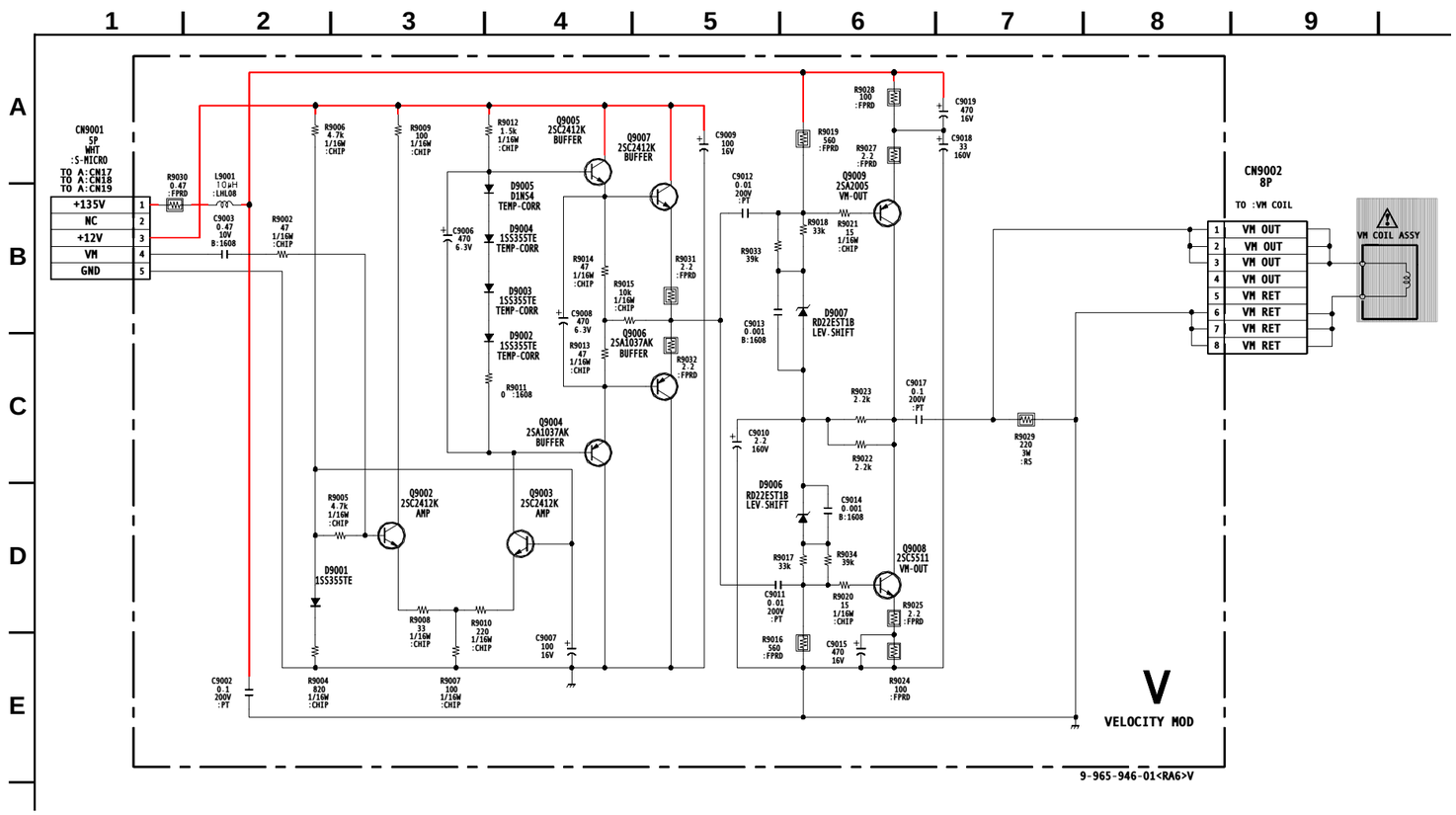
CG [G CRT DRIVE]
COMPONENT SIDE



CG [G CRT DRIVE]
CONDUCTOR SIDE



V BOARD SCHEMATIC DIAGRAM



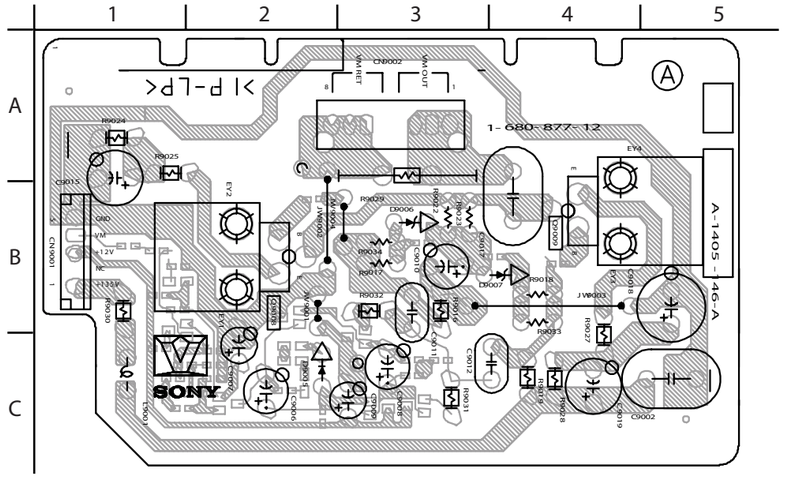
V BOARD TRANSISTOR LIST

	B	C	E
Q9002	3.3	11.9	2.7
Q9003	3.3	6.6	2.7
Q9004	6.6	7.2	GND
Q9005	9.0	12.0	8.4
Q9006	7.2	GND	7.8
Q9007	8.4	12.0	7.8
Q9008	1.4	68.0	0.8
Q9009	134.3	68.0	134.9

All voltages are in V.

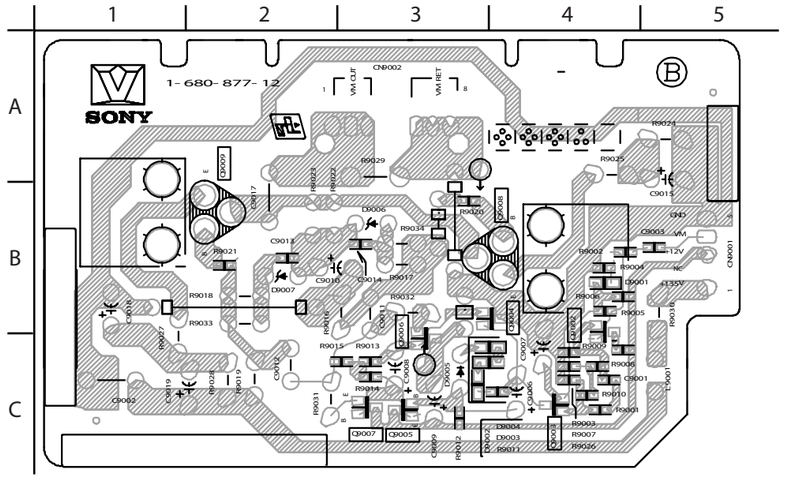
V [VELOCITY MOD]

COMPONENT SIDE

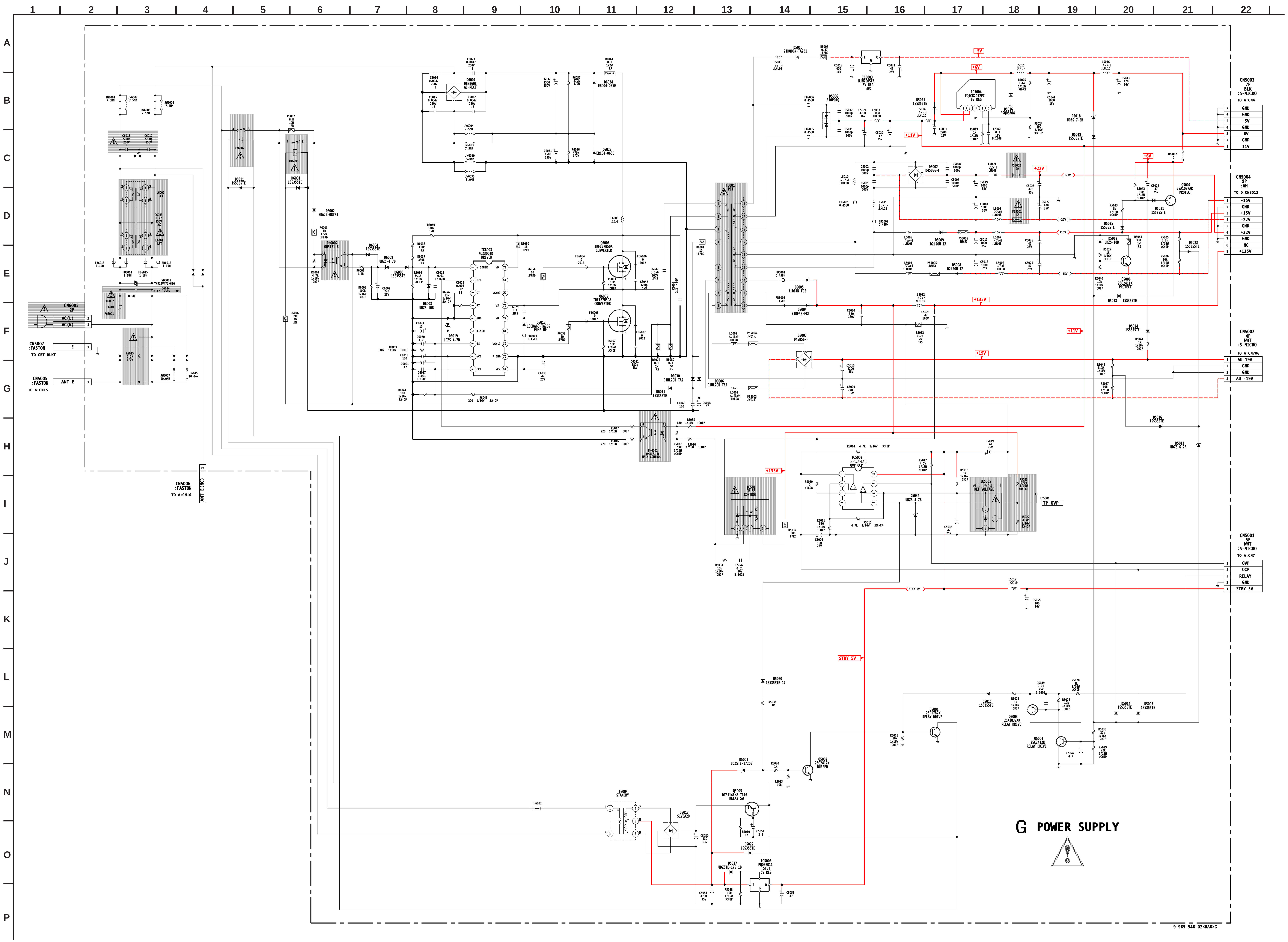


V [VELOCITY MOD]

CONDUCTOR SIDE



G BOARD SCHEMATIC DIAGRAM


G POWER SUPPLY
CN6005 2P AC(L) AC(N)
CN5007 :FASTON E TO CRT BLKT
CN5005 :FASTON ANT E TO A:CN15
CN5006 :FASTON ANT E(NC) TO A:CN16
CN5003 7P BLK :S-MICRO TO A:CN4
CN5004 9P :VH TO D:CN8013
CN5002 4P WHT :S-MICRO TO A:CN706
CN5001 5P WHT :S-MICRO TO A:CN7
IC6003 MCZ3001D DRIVER
T6001 PIT
IC5003 NJM7905FA -5V REG :HS
IC5004 PQ1CG2032FZ 6V REG
IC5002 μPC393C OVP OCP
IC501 DM-58 CONTROL
IC5005 μPC1093J-1-T REF VOLTAGE
IC5006 PQ05RD11 STBY 5V REG
T6004 STANDBY
PH6001 ON3171-R MAIN CONTROL
PH6002 ON3171-R
Q6005 IRFIB7N50A CONVERTER
Q6006 IRFIB7N50A CONVERTER
Q5001 2SD1782K RELAY DRIVE
Q5002 2SC2412K BUFFER
Q5003 2SA1037AK RELAY DRIVE
Q5004 2SC2412K RELAY DRIVE
Q5005 DTA114EKA-T146 RELAY SW
Q5006 2SC2411K PROTECT
Q5007 2SA1037AK PROTECT
TP5001 TP.OVP
-5V
+6V
+11V
+22V
+15V
-15V
-22V
+135V
+19V
STBY 5V
9-965-946-02<RA6>G

G BOARD IC VOLTAGE LIST

IC501		IC5004		IC6003	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	134.4	1	10.4	1	2.8
3	2.5	2	6.5	2	1.9
4	7.3	3	GND	3	2.2
5	GND	4	1.2	4	1.5
IC5002		5	6.7	5	GND
PIN	VOLT	IC5005		6	0.0
1	-0.1	PIN	VOLT	7	4.6
2	0.1	1	2.3	8	20.1
3	0.0	2	0.0	9	0.0
4	-0.1	3	2.3	10	10.5
5	2.2	IC5006		11	GND
6	2.3	PIN	VOLT	12	4.9
7	-0.1	I	9.8	13	N/C
8	5.0	O	5.0	14	155.6
IC5003		G	GND	15	145.6
PIN	VOLT			16	150.6
I	-9.0			17	N/C
O	-5.0			18	304.5
G	GND				

All voltages are in V.

G BOARD TRANSISTOR LIST

	B	C	E
Q5001	0.7	0	GND
Q5002	0.0	0.7	GND
Q5003	3.0	0.0	3.0
Q5004	0.0	3.0	GND
Q5005	22.3	9.1	22.8
Q5006	-15.0	0.0	-15.0
Q5007	6.2	0.1	6.2

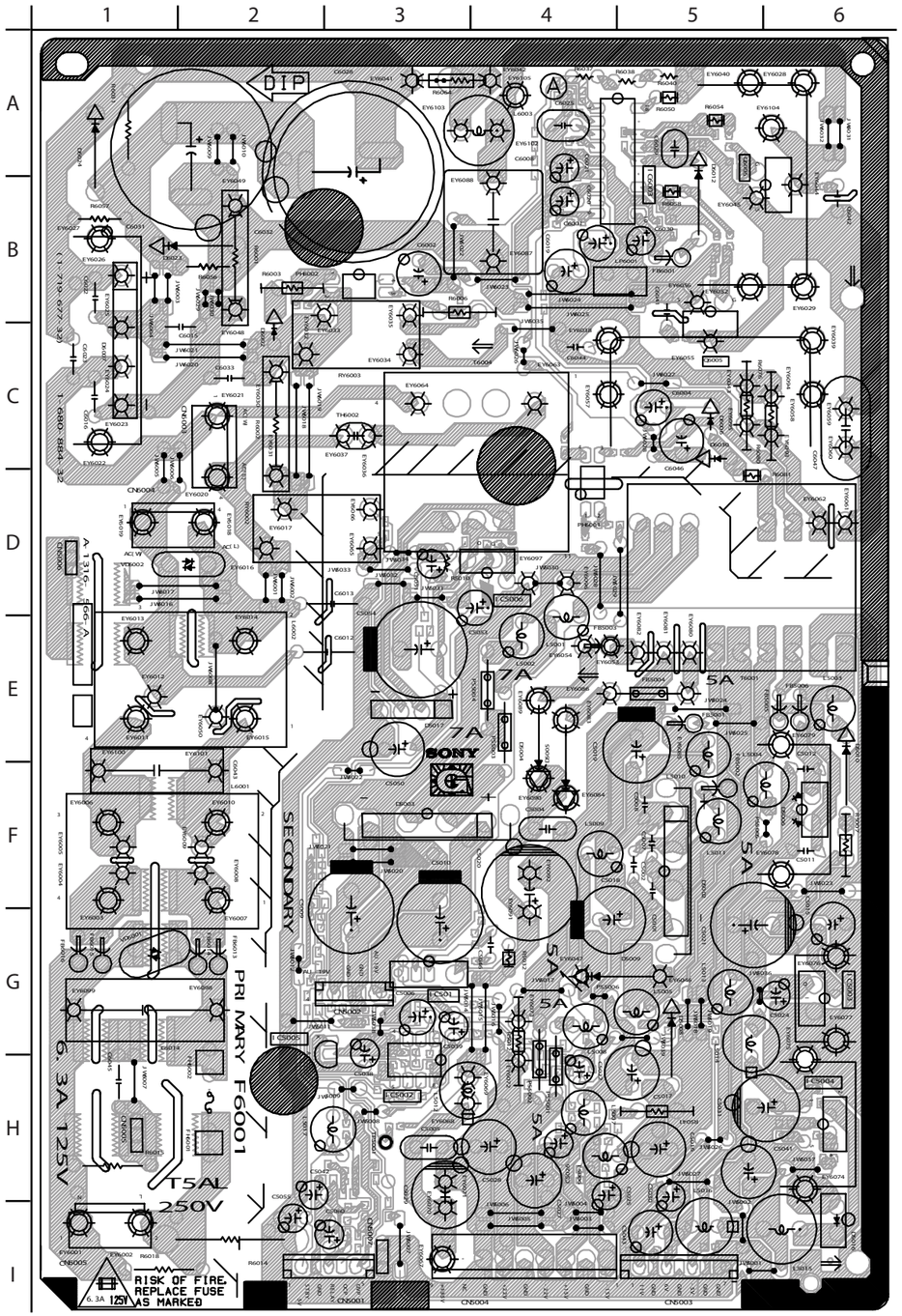
	D	G	S
Q6005	156.0	4.9	0.0
Q6006	302.5	160.0	156.0

All voltages are in V.

G

[POWER SUPPLY]

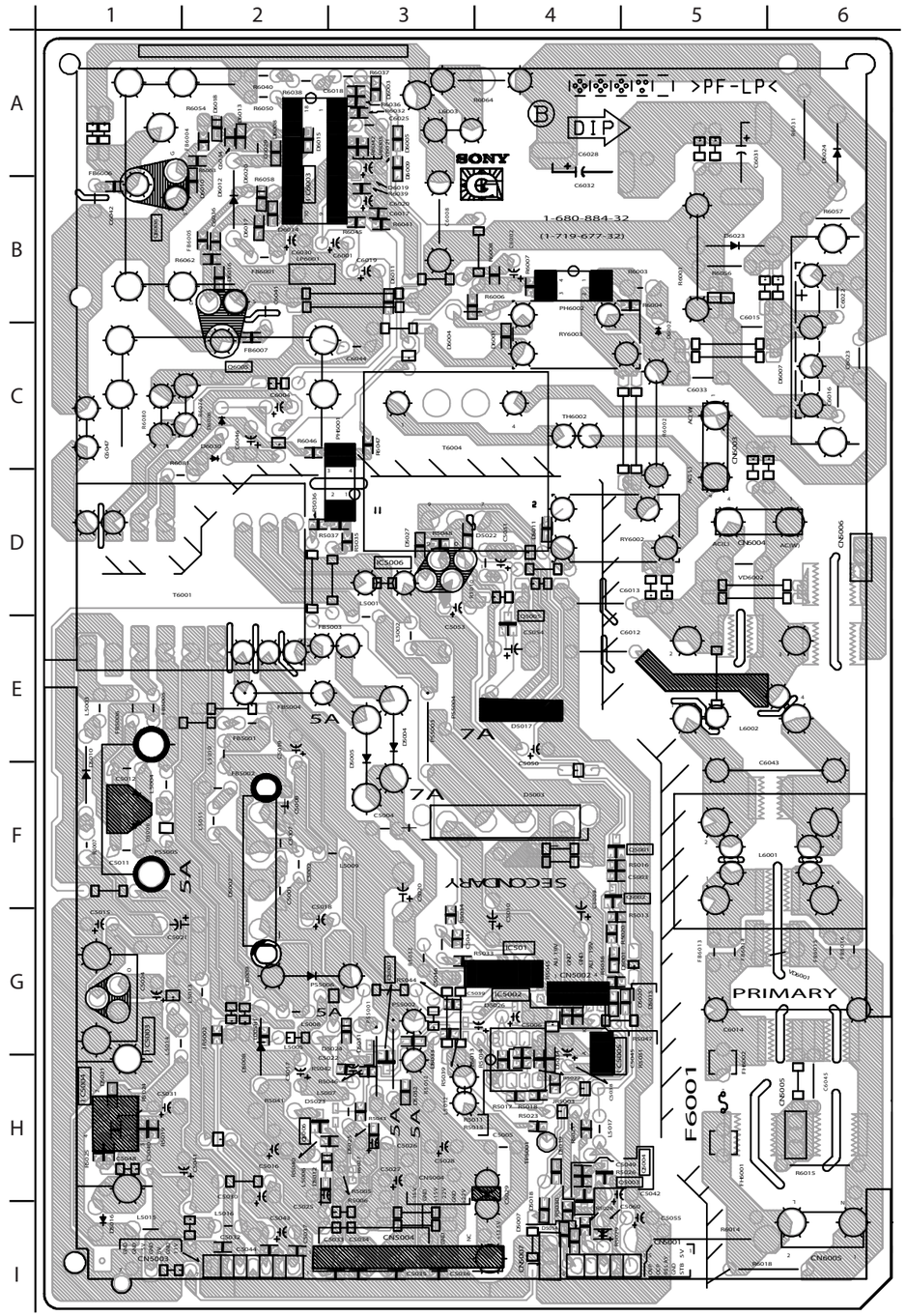
COMPONENT SIDE



G

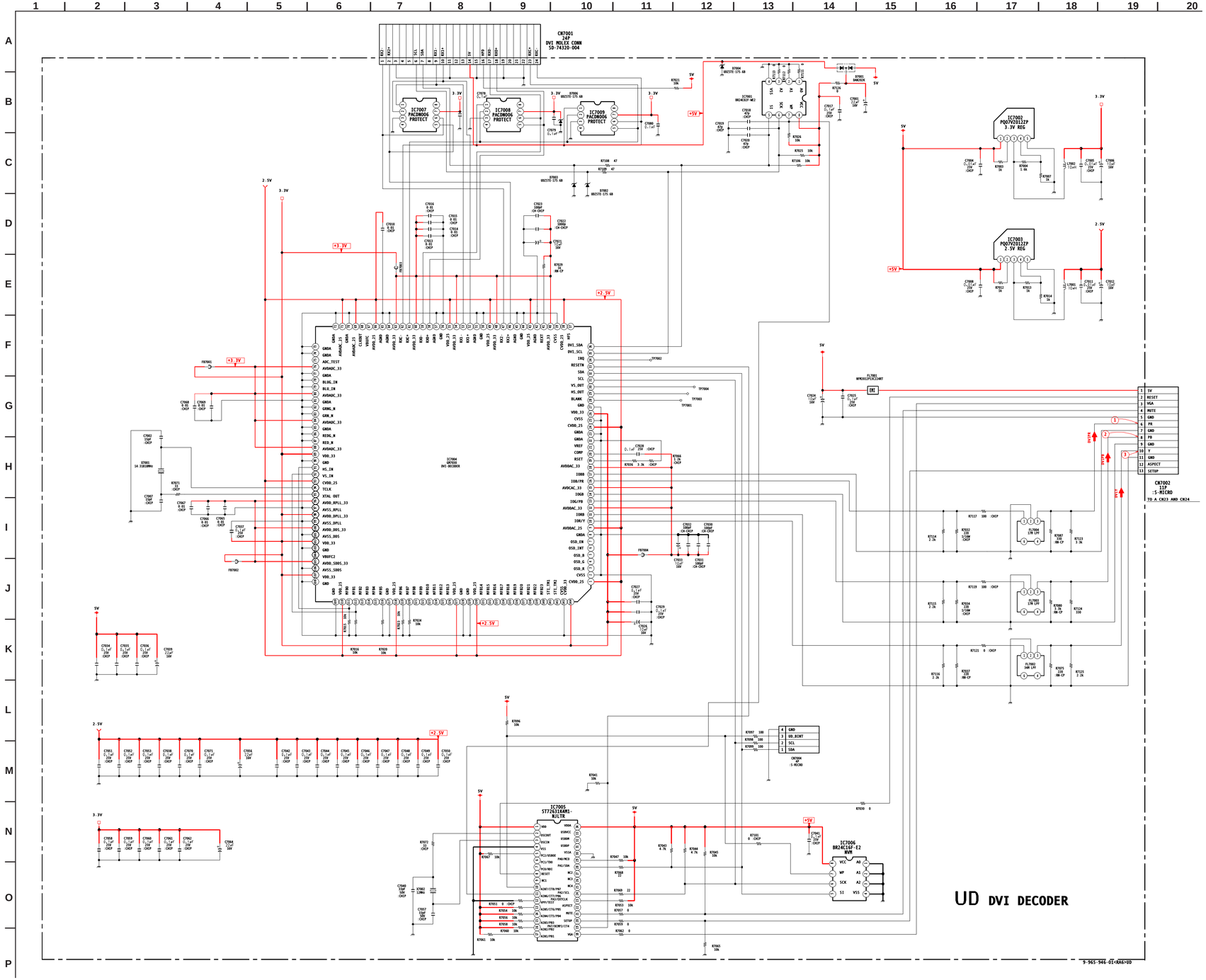
[POWER SUPPLY]

CONDUCTOR SIDE

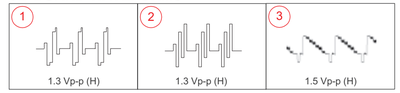


UD BOARD SCHEMATIC DIAGRAM

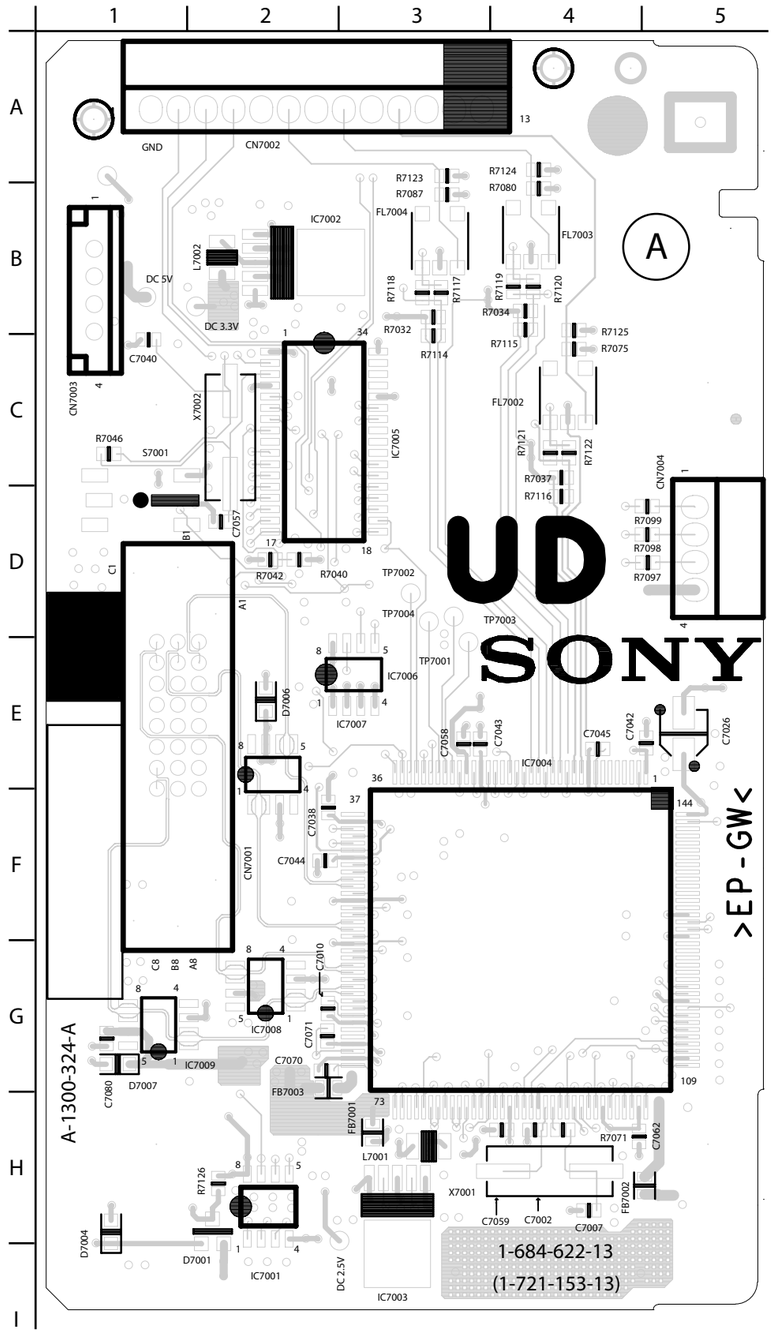
Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



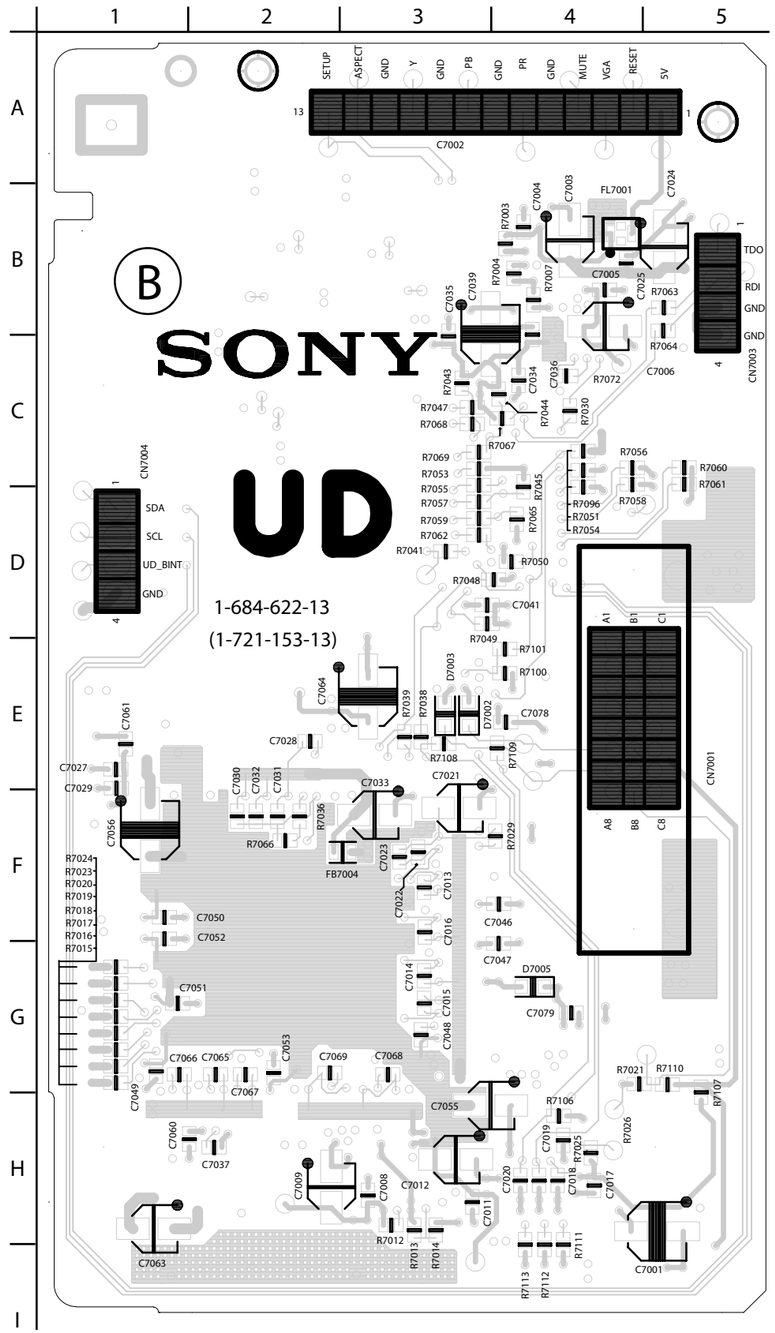
UD BOARD WAVEFORMS



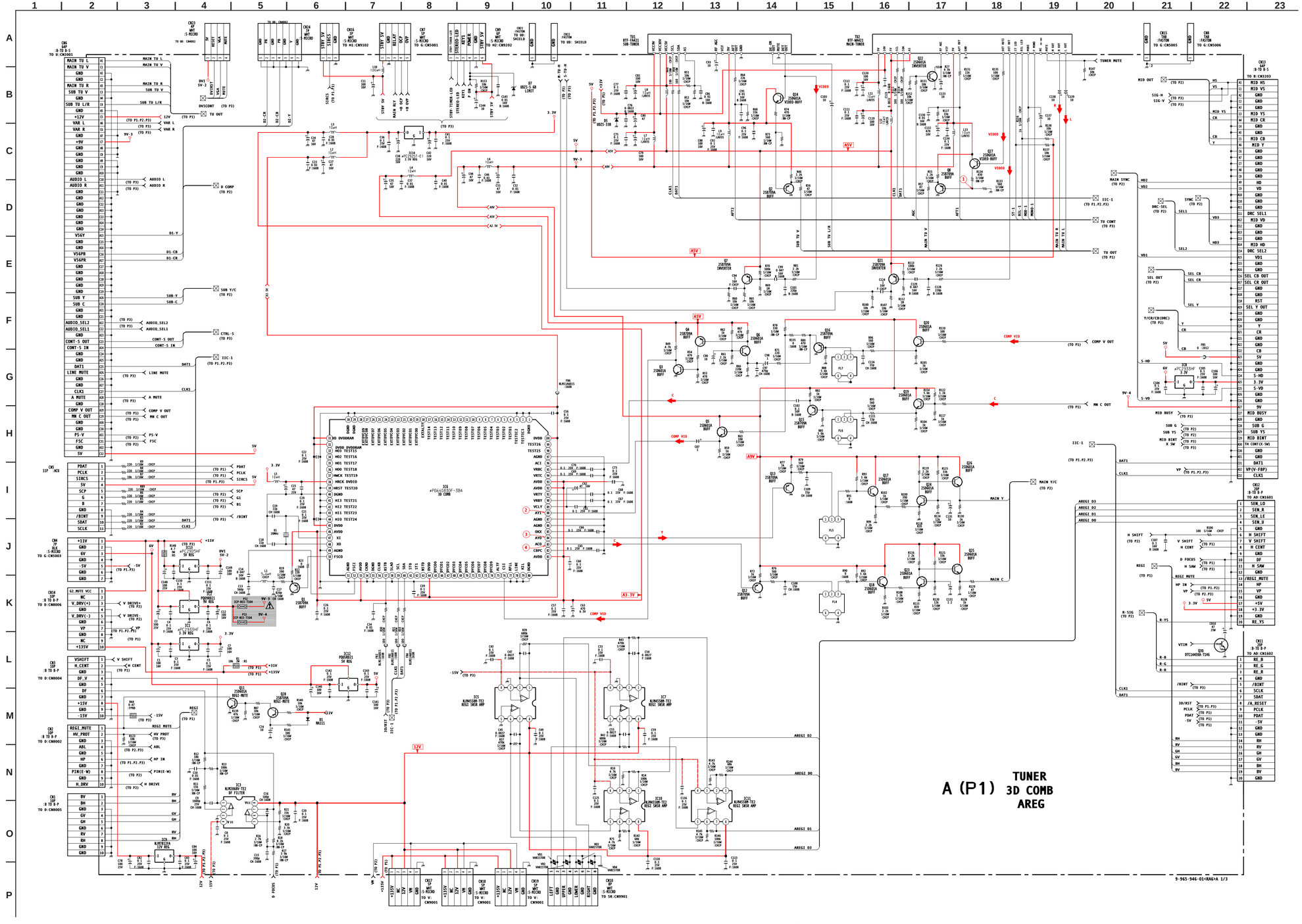
UD [DVI DECODER]
COMPONENT SIDE



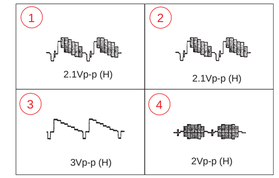
UD [DVI DECODER]
CONDUCTOR SIDE



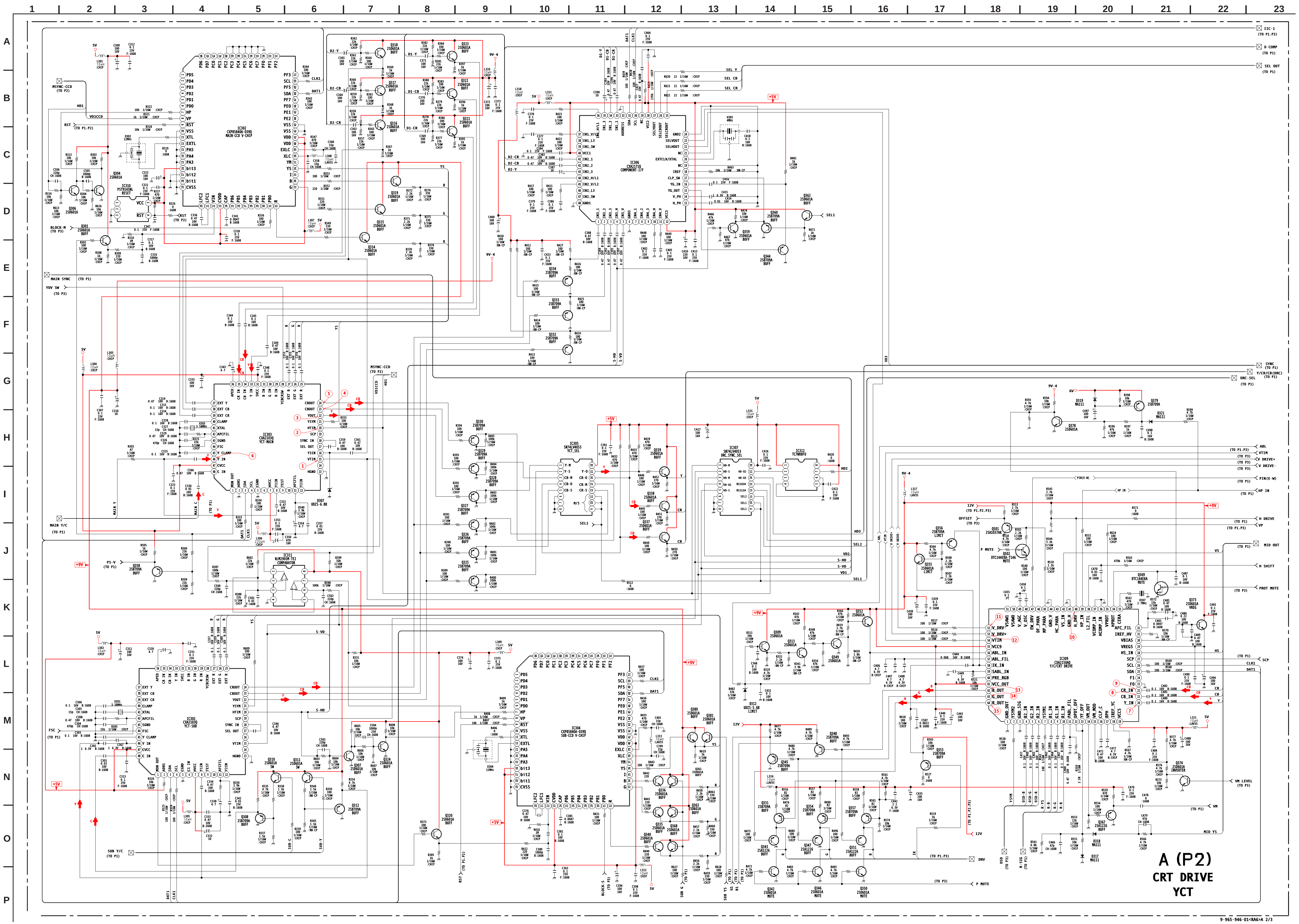
A BOARD SCHEMATIC DIAGRAM (1 OF 3)



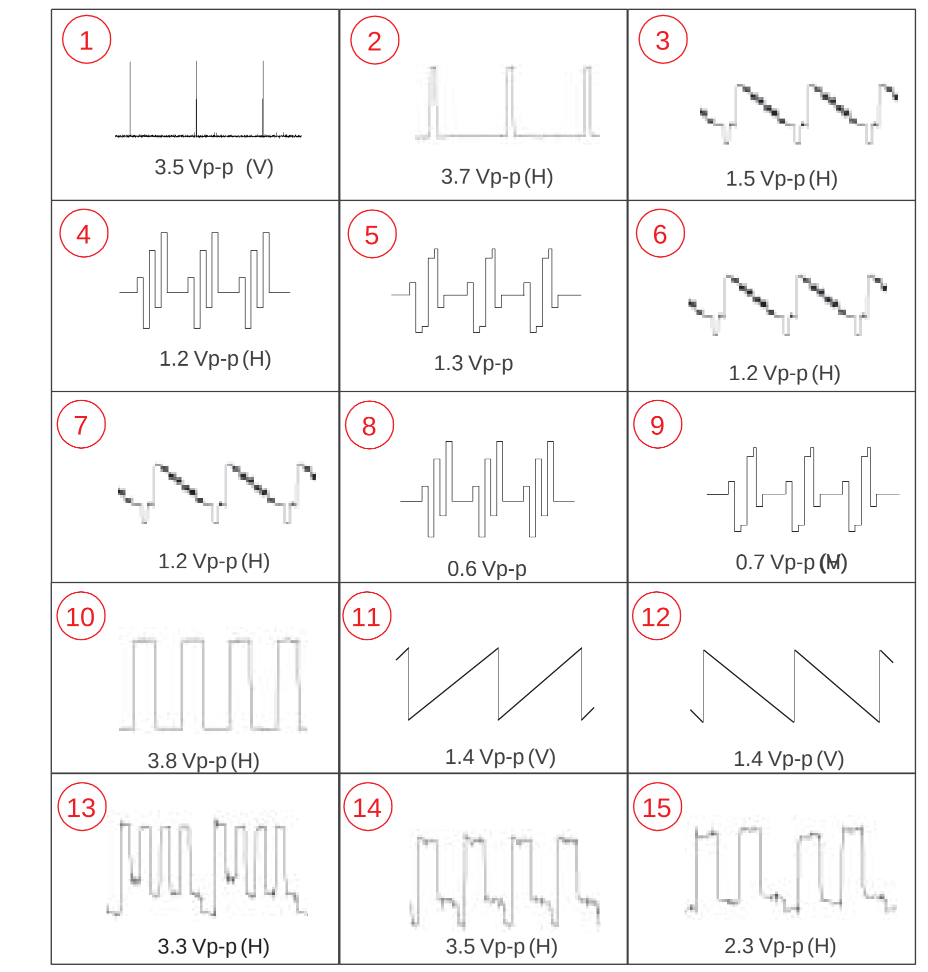
A BOARD WAVEFORMS



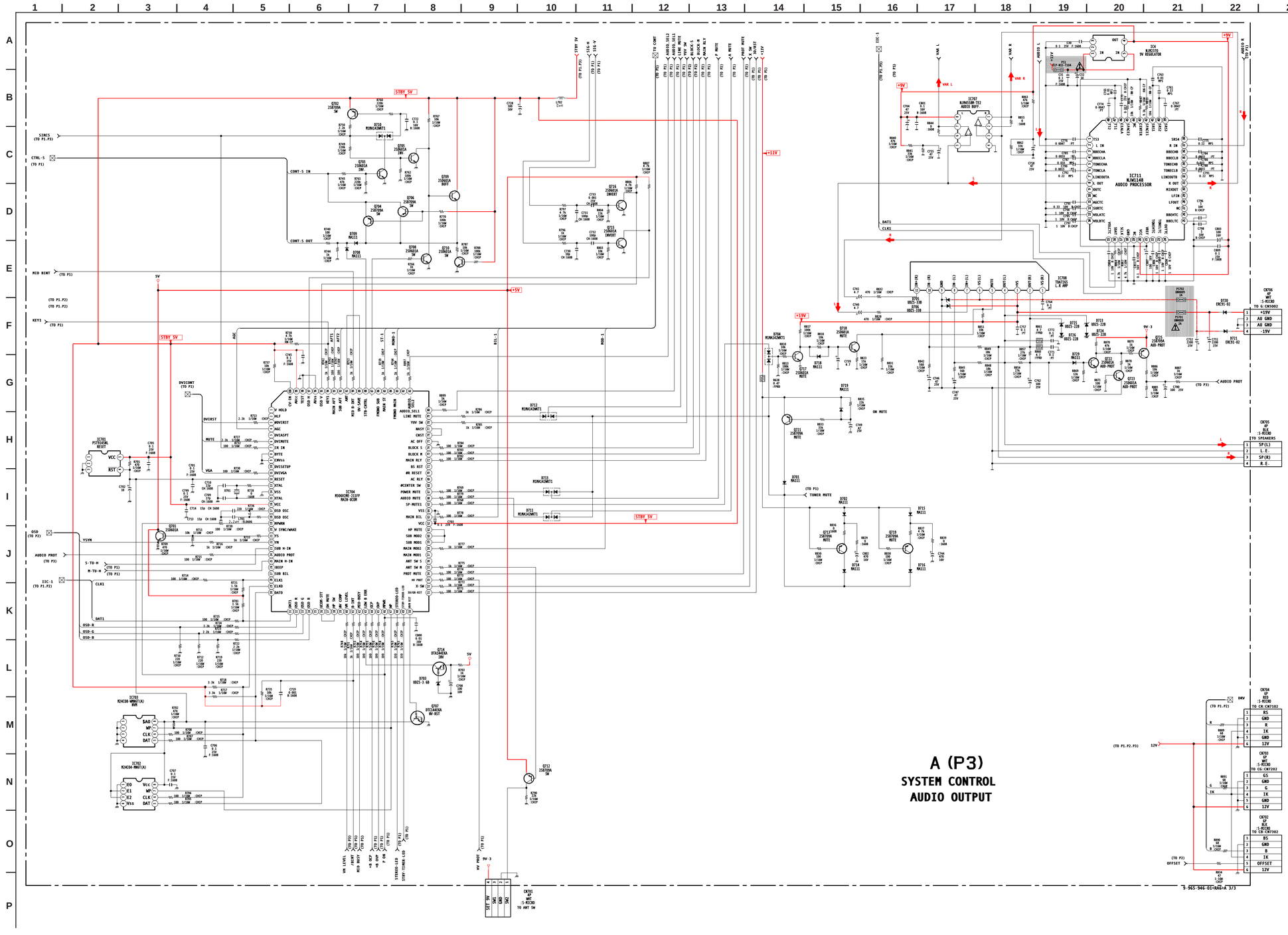
A BOARD SCHEMATIC DIAGRAM (2 OF 3)


IC302 CXP85840A-039Q MAIN-CCD V-CHIP
IC303 CXA2103Q YCT-MAIN
IC301 CXA2103Q YCT-SUB
IC304 CXP85840A-039Q SUB-CCD V-CHIP
IC305 SN74LV4053 YCT_SEL
IC306 CXA2171Q COMPONENT-I/F
IC307 SN74LV4053 DRC_SYNC_SEL
IC309 CXA2150AQ Y/C/CRT DRIVE
IC310 PST9145NL RESET
IC311 NJM2903M-TE2 COMPARATOR
IC312 TC7W08FU
MSYNC-CCD (TO P2)
MAIN SYNC (TO P1)
YUV SW (TO P3)
MAIN Y/C (TO P1)
SUB Y/C (TO P1)
IIC-1 (TO P1.P3)
D COMP (TO P1)
SEL OUT (TO P1)
SYNC (TO P1)
Y/CR/CB(DRC) (TO P1)
DRC-SEL (TO P1)
ABL
VTIM
V DRIVE+
V DRIVE-
PIN(E-W)
HP IN
H DRIVE
VP
MID OUT
H SHIFT
PROT MUTE
SCP
VM LEVEL (TO P3)
VM
DRV
P MUTE
A (P2)
CRT DRIVE
YCT
9-965-946-01<RA6>A 2/3

A BOARD WAVEFORMS



A BOARD SCHEMATIC DIAGRAM (3 OF 3)



A BOARD IC VOLTAGE LIST

IC1		21	NC	81	3.3	IC12		IC302		IC303		11	2.5	11	4.9	9	4.9	57	5	IC704		65	0	IC711	
PIN	VOLT	22	NC	82	1	PIN	VOLT	PIN	VOLT	PIN	VOLT	12	2.1	12	0	10	4.9	58	3.9	PIN	VOLT	66	NC	PIN	VOLT
I	6	23	NC	83	1.6	I	6	1	NC	1	1.8	13	GND	13	2.8	11	0	59	1.7	1	NC	67	0	1	4.3
O	3.3	24	NC	84	1.7	O	5	2	NC	2	GND	14	GND	14	2.9	12	0.4	60	1.7	2	NC	68	NC	2	4.3
GND	GND	25	NC	85	1	GND	GND	3	NC	3	4.4	15	GND	15	2.6	13	0.5	61	9	3	0	69	NC	3	0.0
IC2		26	NC	86	0	4	6	4	NC	4	4.4	16	5	16	5	14	0.4	62	2.7	4	0	70	NC	4	4.3
PIN	VOLT	27	NC	87	0	IC13		5	NC	5	GND	17	5	IC306		15	0.5	63	2.9	5	NC	71	NC	5	0.0
I	11	28	NC	88	1.3	PIN	VOLT	6	NC	6	NC	18	GND	PIN	VOLT	16	5	64	2.9	6	0	72	6.3	6	0.0
O	9	29	GND	89	0.5	I	11	7	0.4	7	4.8	19	GND	1	2.9	IC309		IC310		7	4.7	73	0	7	4.3
GND	GND	30	GND	90	0.9	O	5	8	5	8	2.8	20	1.7	2	2.9	PIN	VOLT	PIN	VOLT	8	GND	74	0	8	0.0
4	11	31	2.5	91	1.6	GND	GND	9	5	9	NC	21	2.6	3	2.9	1	GND	1	NC	9	GND	75	GND	9	NC
IC3		32	2.5	92	3.3	IC14		10	GND	10	NC	22	2.9	4	1.3	2	0	2	GND	10	NC	76	0	10	NC
PIN	VOLT	33	NC	93	3.3	PIN	VOLT	11	2.5	11	2.4	23	5	5	1	3	GND	3	GND	11	0	77	0	11	1.4
1	1.5	34	NC	94	3.3	I	3.3	12	2.2	12	NC	24	1.8	6	GND	4	3.1	4	5	12	4.9	78	0	12	0.8
2	0	35	NC	95	2	O	2.5	13	GND	13	GND	25	NC	7	NC	5	3.2	5	5	13	2.3	79	0	13	2.9
3	GND	36	NC	96	2.6	GND	GND	14	GND	14	NC	26	NC	8	NC	6	3.1	IC311		14	GND	80	NC	14	2.9
4	-15	37	NC	97	0	IC301		15	GND	15	0.4	27	NC	9	NC	7	0	PIN	VOLT	15	2.4	81	0	15	2.8
5	1.1	38	3.3	98	NC	PIN	VOLT	16	5	16	2.5	28	NC	10	1	8	3.6	1	5	16	4.9	82	0	16	4.6
6	1.1	39	GND	99	NC	1	2.3	17	GND	17	2	29	NC	11	1	9	0	2	0.4	17	0	83	0	17	0.0
7	0.3	40	GND	100	3.3	2	4.7	18	GND	18	3.1	30	NC	12	5	10	3.6	3	2.5	18	0	84	NC	18	GND
8	11.9	41	GND	IC7		3	4.4	19	GND	19	NC	31	0	13	4.1	11	0	4	GND	19	0	85	0	19	NC
IC4		42	GND	PIN	VOLT	4	4.5	20	1.7	20	0	32	0	14	4.1	12	0.4	5	2.5	20	NC	86	NC	20	9.0
PIN	VOLT	43	GND	1	0.1	5	GND	21	2.6	21	0	33	0	15	3.2	13	0.4	6	0.5	21	0	87	0	21	4.3
1	11.0	44	GND	2	0	6	NC	22	2.4	22	1.8	34	0	16	2.8	14	2.5	7	5	22	0	88	0	22	3.3
2	GND	45	2.5	3	GND	7	5	23	5	23	2.1	35	NC	17	3.2	15	3.8	8	5	23	0	89	0	23	3.3
3	0.0	46	3.3	4	-15	8	3	24	1.6	24	2.2	36	0	18	1	16	2.6	IC312		24	GND	90	0	24	4.9
4	9.0	47	1.7	5	GND	9	NC	25	NC	25	3.6	37	NC	19	NC	17	2.6	PIN	VOLT	25	0	91	0	25	0.0
5	11.0	48	1.5	6	0	10	NC	26	NC	26	3.6	38	2.5	20	2.9	18	1.1	1	5	26	NC	92	0	26	3.3
IC5		49	GND	7	0.2	11	2.4	27	NC	27	3.6	39	2.5	21	NC	19	5	2	0.5	27	NC	93	0	27	NC
PIN	VOLT	50	1.4	8	12	12	NC	28	NC	28	2.9	40	5	22	0.4	20	3.6	3	NC	28	4.4	94	4.6	28	NC
1	0	51	GND	IC8		13	GND	29	NC	29	NC	41	5	23	0.1	21	0	4	GND	29	4.9	95	4.6	29	NC
2	0	52	0	PIN	VOLT	14	NC	30	NC	30	NC	42	GND	24	GND	22	3.1	5	GND	30	4.9	96	GND	30	NC
3	GND	53	3.3	I	6	15	0.5	31	0	31	NC	43	GND	25	2.6	23	GND	6	GND	31	4.4	97	4.6	31	4.3
4	-15	54	GND	O	3.3	16	NC	32	0	32	5	44	NC	26	2.6	24	NC	7	HD2	32	0	98	GND	32	NC
5	GND	55	GND	G	GND	17	0	33	0	33	3.2	45	NC	27	2.6	25	4.4	8	5	33	0	99	4.9	33	4.3
6	0	56	NC	IC9		18	3.4	34	0	34	3.2	46	NC	28	5	26	4.4	IC701		34	0	100	4.6	34	0.0
7	0.1	57	5	PIN	VOLT	19	NC	35	NC	35	3.2	47	NC	29	NC	27	0.7	PIN	VOLT	35	NC	IC707		35	4.3
8	12	58	GND	I	15	20	0.5	36	0	36	3.2	48	SDA	30	4.4	28	0.2	1	NC	36	0	PIN	VOLT	36	4.3
IC6		59	4.5	O	12	21	0	37	NC	37	3.6	49	NC	31	4.4	29	5	2	GND	37	4.6	1	4.8	37	4.3
PIN	VOLT	60	4.5	GND	GND	22	2.1	38	2.6	38	3.2	50	SCL	32	GND	30	5.7	3	GND	38	0	2	4.5	38	0.0
1	GND	61	NC	IC10		23	2.2	39	2.6	39	3.3	51	NC	33	2.9	31	1.3	4	5	39	0	3	4.5	39	4.3
2	GND	62	NC	PIN	VOLT	24	2.2	40	5	40	1.7	52	NC	34	2.9	32	3.1	5	5	40	0	4	GND	40	4.3
3	GND	63	NC	1	0.1	25	3.5	41	5	41	1.8	53	NC	35	2.9	33	1.6	IC702		41	2.3	5	4.6	41	0.0
4	NC	64	3.3	2	0	26	3.5	42	GND	42	2.6	54	NC	36	1	34	0	PIN	VOLT	42	0	6	4.5	42	4.3
5	NC	65	NC	3	0	27	3.5	43	GND	43	GND	55	NC	37	1	35	0.3	1	GND	43	4.6	7	4.8	43	4.3
6	NC	66	NC	4	-15	28	NC	44	NC	44	2.5	56	NC	38	NC	36	GND	2	5	44	2.8	8	9	44	NC
7	NC	67	NC	5	0.1	29	NC	45	NC	45	3.2	57	NC	39	NC	37	2.7	3	5	45	0.1	IC708		45	4.3
8	NC	68	NC	6	0	30	NC	46	NC	46	2.8	58	NC	40	5	38	3.3	4	GND	46	0	PIN	VOLT	46	4.3
9	NC	69	NC	7	1	31	NC	47	NC	47	5	59	NC	41	2.9	39	0.7	5	4.4	47	4.6	1	-19	47	4.3
10	NC	70	NC	8	12	32	5	48	4.4	48	3.2	60	NC	42	2.8	40	3	6	4.4	48	5	2	0	48	4.3
11	NC	71	NC	IC11		33	NC	49	NC	IC304		61	NC	43	2.1	41	GND	7	5	49	5	3	22.1		
12	NC	72	NC	1	1.2	34	NC	50	4.3	PIN	VOLT	62	NC	44	1	42	0	8	5	50	0	4	0		
13	NC	73	NC	2	0.1	35	NC	51	NC	1	NC	63	NC	45	1	43	2.5	IC703		51	5	5	11.6		
14	NC	74	NC	3	0.3	36	2.7	52	NC	2	NC	64	NC	46	NC	44	GND	PIN	VOLT	52	0	6	-19		
15	NC	75	NC	4	-15	37	NC	53	NC	3	NC	IC305		47	NC	45	2.1	1	GND	53	2.8	7	0		
16	NC	76	4.1	5	0.2	38	NC	54	NC	4	NC	PIN	VOLT	48	GND	46	NC	2	GND	54	0	8	0		
17	NC	77	GND	6	0	39	NC	55	GND	5	NC	1	2.4	IC307		47	3.9	3	GND	55	0	9	0		
18	NC	78	GND	7	2	40	1.7	56	GND	6	NC	2	0	PIN	VOLT	48	4.4	4	GND	56	NC	10	0		
19	NC	79	GND	8	12	41	1.8	57	GND	7	0.4	3	2.8	1	0.5	49	5.4	5	4.4	57	NC	11	0		
20	NC	80	GND			42	2.6	58	GND	8	5	4	2.9	2	0.5	50	NC	6	4.4	58	0				
						43	GND	59	GND	9	5	5	0	3	0.5	51	NC	7	5	59	0				
						44	2.5	60	GND	10	GND	6	GND	4	0.5	52	0	8	5	60	0				
						45	3.2	61	NC			7	GND	5	0.5	53	3.5			61	0				
						46	3	62	NC			8	GND	6	GND	54	0.5			62	4.9				
						47	4.9	63	NC			9	4.9	7	GND	55	9.1			63	4.9				
						48	3.2	64	NC			10	4.9	8	GND	56	3.1			64	GND				

All voltages are in V.

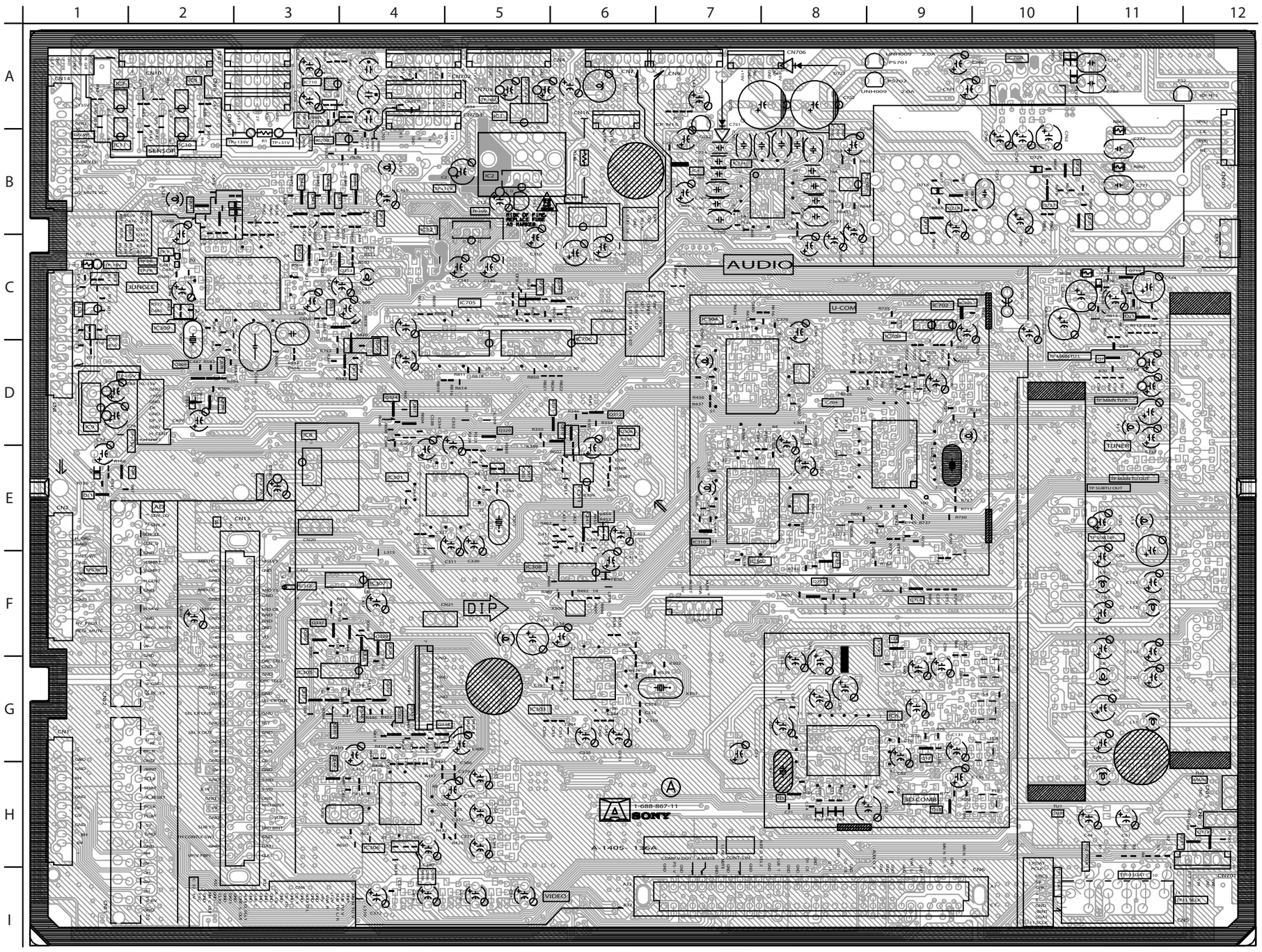
A BOARD TRANSISTOR LIST

	B	C	E		B	C	E
Q1	1.9	GND	2.5	Q334	2.2	GND	2.8
Q2	2.2	2.9	GND	Q335	0	9.1	0
Q3	0.1	0	GND	Q336	0	9.1	0
Q4	4.8	0.6	5	Q337	2.4	5	2.2
Q5	6.2	8.9	5.5	Q338	2.4	5	2.2
Q6	3.4	4.8	3.7	Q339	2.5	5	1.9
Q7	5.3	0.9	5	Q340	0	9.1	0
Q8	2.4	3	GND	Q342	0	0	GND
Q11	0	10.4	GND	Q343	2.9	GND	3.6
Q12	1.7	GND	2.4	Q344	3.2	GND	3.8
Q13	1.6	GND	2.3	Q345	2.9	GND	3.5
Q14	4.7	9	0	Q346	0	0	GND
Q15	2.9	GND	3.5	Q347	2.9	GND	3.7
Q16	2.8	GND	3.5	Q348	2.7	GND	3.3
Q17	2.9	8.9	2.3	Q350	0	0	GND
Q18	3	8.9	2.3	Q351	2.7	GND	3.5
Q19	3.7	8.9	3.1	Q353	9.3	0	3.9
Q20	3.7	8.9	3.1	Q354	8.5	3.7	9.2
Q21	5	0.8	5	Q355	2.2	9.1	3.9
Q22	0	4.1	GND	Q356	4.4	GND	4
Q23	2.3	6.6	1.7	Q357	8.5	3.4	9.2
Q24	2.3	6	1.8	Q358	1.1	GND	1.7
Q25	6.6	8.9	5.9	Q361	0	9.1	0
Q26	6	8.9	5.3	Q363	0	9.1	0
Q27	4.8	9	4.2	Q367	2.4	GND	3.3
Q28	10.4	0	10.2	Q368	0	9.1	0
Q30	0	0	GND	Q369	0	0	GND
Q301	0	5	1.2	Q373	5.7	9.1	5
Q304	0.4	0.5	GND	Q374	0	2.6	GND
Q306	0.2	2.5	GND	Q378	0.7	0.1	GND
Q307	0.2	2.5	GND	Q379	9.1	0.7	9.1
Q308	2.6	GND	6.6	Q380	0	9.1	0
Q309	2.9	9.1	8.1	Q381	0	9.1	0
Q310	3.7	9.1	3.1	Q501	2.1	2.7	GND
Q311	3.9	9.1	3.3	Q502	0.8	1.4	GND
Q312	1.6	GND	2.3	Q701	0	5	0
Q313	7.9	8.8	GND	Q702	4.4	4	5
Q314	0	8.9	0	Q703	0	4.2	GND
Q315	0	9	0	Q704	4.9	0	0
Q316	4.4	9.1	3.8	Q705	0.6	0.1	GND
Q317	4.4	9.1	3.8	Q706	4.3	0	0
Q318	4.4	9.1	3.8	Q707	0	5	GND
Q319	0	9.1	0	Q708	0	0.1	GND
Q320	2.3	5	1.7	Q709	0.1	5	0
Q321	4.4	9.1	3.8	Q710	0.6	0	GND
Q322	4.4	9.1	3.8	Q712	4.9	0	5
Q323	4.4	9.1	3.8	Q713	10.3	0	10.3
Q324	0.5	0.4	GND	Q714	0	0	4.9
Q325	2.2	GND	0	Q715	0	4.7	GND
Q326	2.2	GND	0	Q716	0	5	GND
Q327	2.2	GND	0	Q717	0.3	13.1	GND
Q328	1.8	GND	2.5	Q718	12.3	11.6	11.6
Q329	2.1	GND	2.8	Q719	10.3	0	10.3
Q330	2.2	GND	2.8	Q721	10.3	0	10.4
Q331	8.5	3.6	9.2	Q722	0	9	GND
Q332	2.1	GND	2.8	Q723	0	9	0
Q333	2.1	GND	2.6	Q725	8.9	0	9

All voltages are in V.

A [TUNER, 3D COMB, AREG, CRT DRIVE, YCT, SYSTEM CONTROL, AUDIO OUTPUT]

COMPONENT SIDE



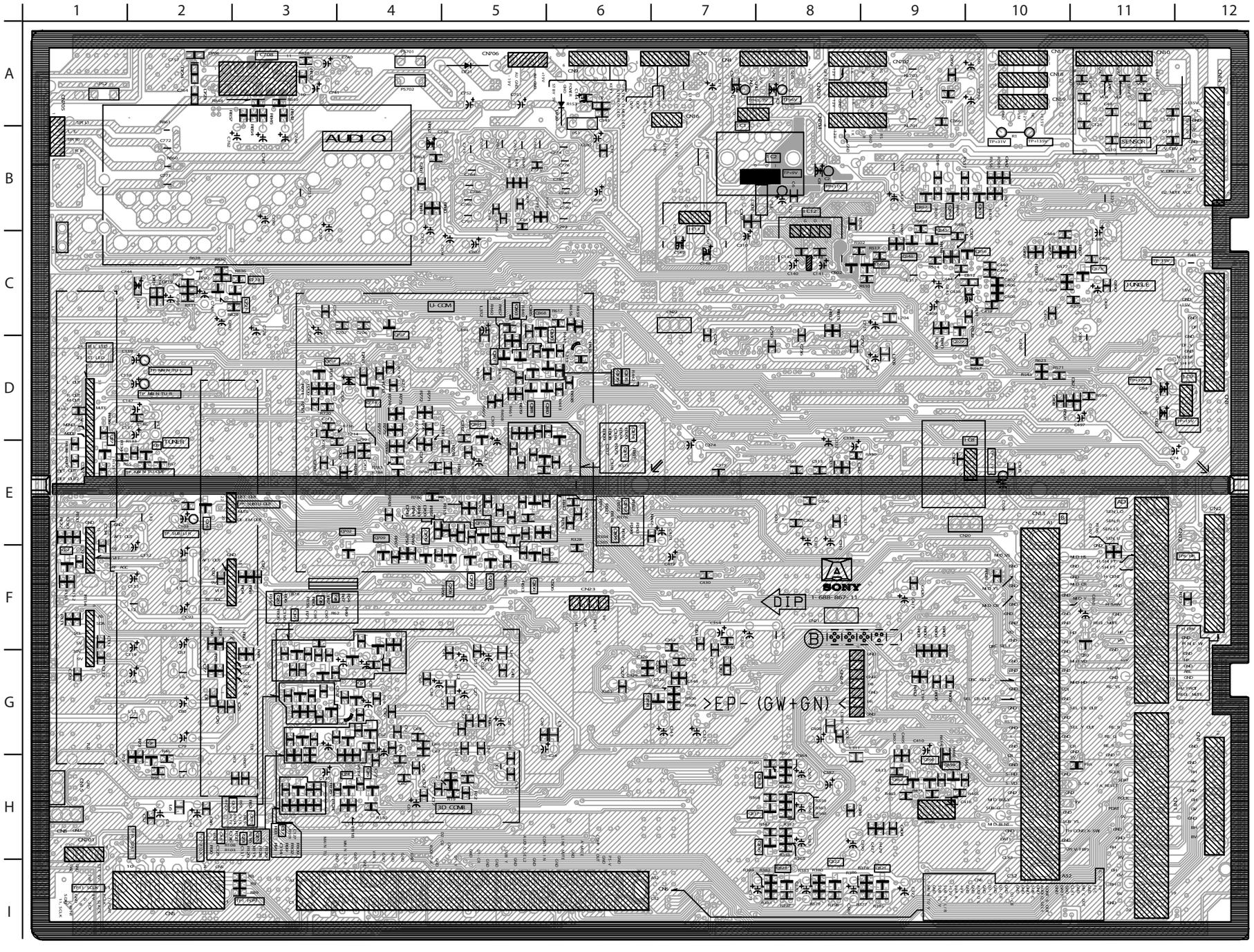
A BOARD LOCATOR LIST

DIODE		TRANSISTOR		TRANSISTOR	
D1	E-1	Q1	H-8	Q703	F-8
D317	C-2	Q3	F-9	Q712	H-12
D318	C-2	Q7	D-11	Q715	F-8
D319	D-2	Q11	E-1	Q716	F-9
D701	C-11	Q12	G-9	Q717	B-9
D704	C-11	Q13	H-9	Q718	B-9
D705	A-10	Q21	C-11	Q722	B-10
D710	F-9	Q302	F-7	Q723	B-10
D711	E-8	Q303	F-7	Q725	B-11
D712	E-8	Q305	F-6		
D713	D-8	Q307	D-4		
D718	B-9	Q308	B-6		
D725	A-10	Q310	D-5		
D726	A-10	Q311	D-5		
D729	B-10	Q312	D-6		
IC		Q313	D-4		
IC1	A-5	Q320	D-5		
IC2	B-5	Q324	D-4		
IC3	C-1	Q325	F-4		
IC4	G-9	Q326	F-4		
IC5	A-2	Q327	G-3		
IC6	G-9	Q328	F-4		
IC7	A-2	Q329	F-4		
IC8	D-3	Q330	G-3		
IC9	D-1	Q332	G-4		
IC10	B-2	Q333	G-4		
IC11	B-1	Q334	G-4		
IC12	B-4	Q337	F-3		
IC13	B-6	Q338	G-4		
IC301	E-4	Q339	G-4		
IC302	F-7	Q341	E-6		
IC303	G-5	Q342	B-3		
IC304	C-7	Q343	B-3		
IC305	G-3	Q344	G-3		
IC306	H-4	Q346	B-3		
IC307	F-4	Q347	B-3		
IC308	F-5	Q349	D-4		
IC309	C-2	Q350	B-4		
IC310	E-7	Q351	B-4		
IC311	E-6	Q352	C-3		
IC312	F-3	Q353	C-4		
IC701	C-9	Q355	C-3		
IC702	C-9	Q367	C-1		
IC703	C-9	Q369	D-2		
IC704	D-8	Q374	B-2		
IC707	B-8	Q378	D-2		
IC708	A-10	Q379	D-2		
IC711	B-8				

A

[TUNER, 3D COMB, AREG, CRT DRIVE, YCT, SYSTEM CONTROL, AUDIO OUTPUT]

CONDUCTOR SIDE

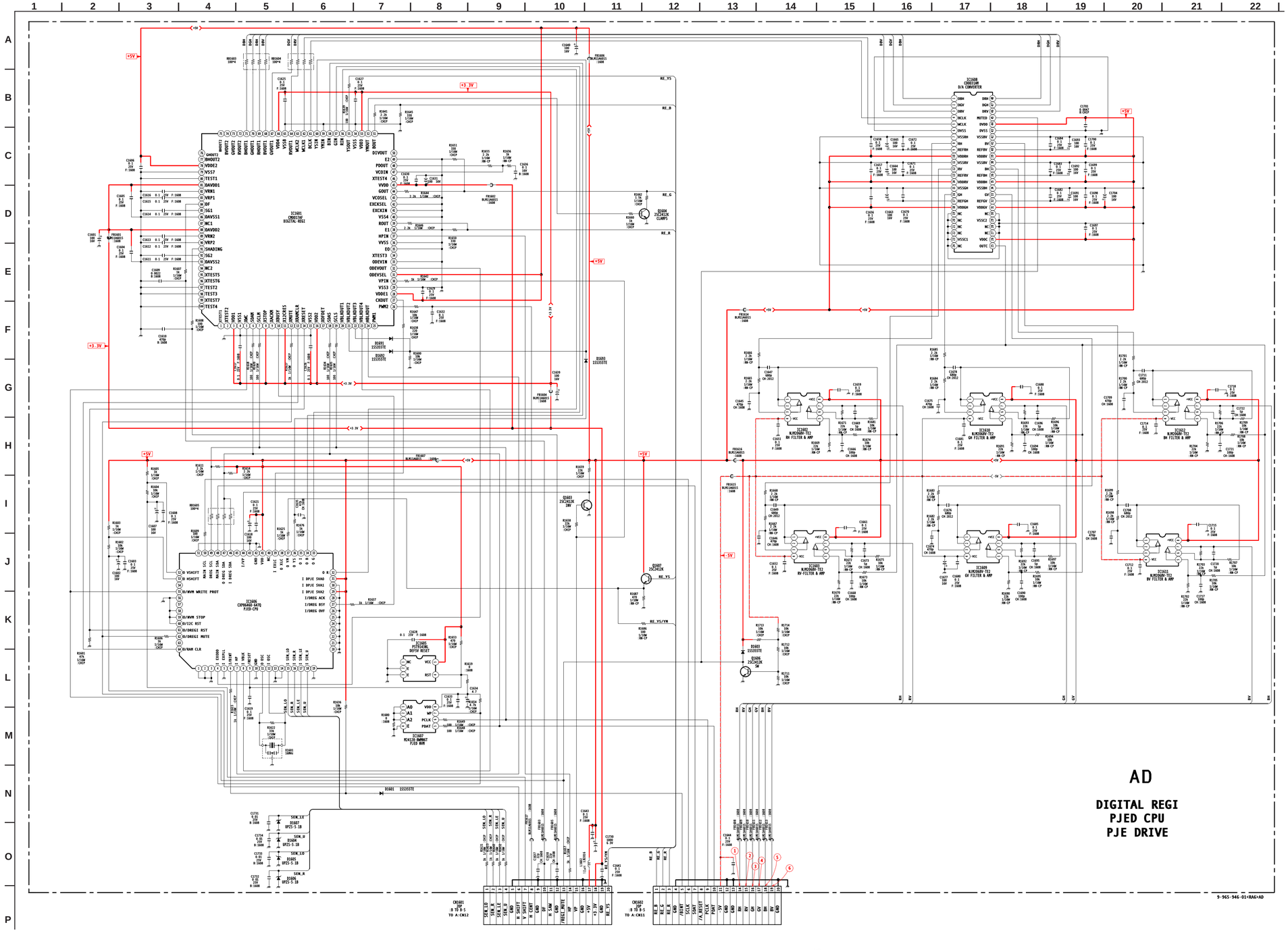


A BOARD LOCATOR LIST

DIODE		TRANSISTOR	
D5	G-2	Q314	E-5
D7	A-6	Q315	E-5
D307	G-7	Q316	H-7
D312	C-9	Q317	H-7
D321	D-10	Q318	H-7
D702	C-2	Q319	E-6
D703	D-4	Q321	I-9
D706	A-2	Q322	I-9
D708	E-4	Q323	I-8
D709	E-4	Q331	B-9
D719	C-2	Q335	D-5
D720	B-6	Q336	D-5
D721	A-5	Q340	C-5
D723	A-2	Q345	B-9
D724	A-2	Q348	C-9
TRANSISTOR		Q354	B-9
Q2	G-2	Q356	B-10
Q4	F-3	Q357	B-9
Q5	G-4	Q358	G-6
Q6	F-3	Q361	C-5
Q8	E-2	Q363	C-5
Q14	E-2	Q368	C-5
Q15	F-3	Q373	C-11
Q16	F-3	Q380	D-5
Q17	H-3	Q381	D-5
Q18	F-3	Q501	C-9
Q19	F-3	Q502	C-8
Q20	F-3	Q701	D-3
Q22	F-1	Q702	E-3
Q23	G-4	Q704	F-5
Q24	H-4	Q705	F-5
Q25	G-4	Q706	F-5
Q26	H-4	Q707	C-4
Q27	D-11	Q708	F-4
Q28	G-4	Q709	E-4
Q30	F-11	Q710	E-5
Q301	D-5	Q713	C-3
Q304	E-6	Q714	D-4
Q306	F-5	Q721	C-3
Q309	C-9		

AD BOARD SCHEMATIC DIAGRAM

Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

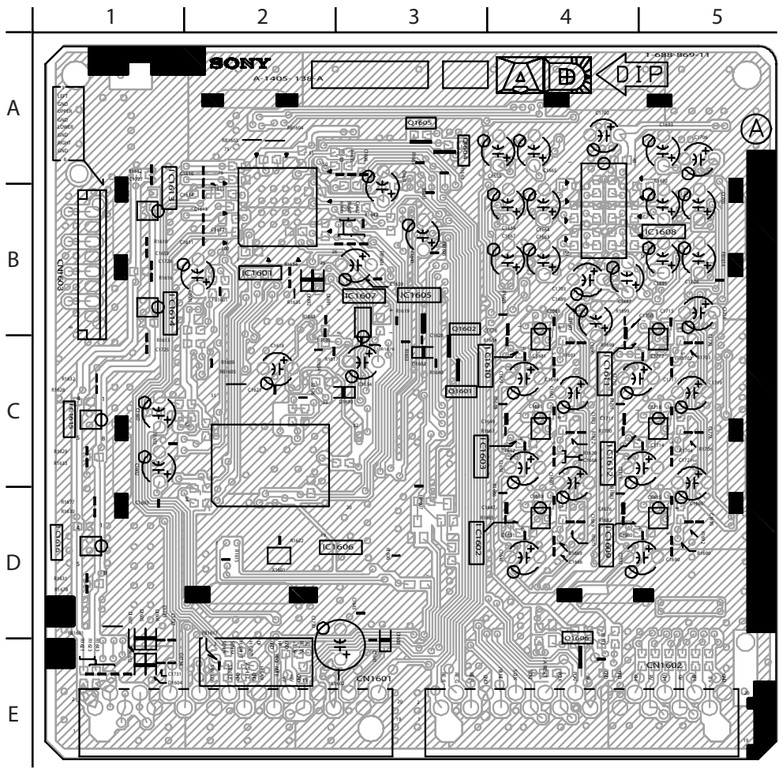


AD BOARD WAVEFORMS

1 — 2.1 Vp-p (V)	2 — 2.3 Vp-p (V)	3 — 2.1 Vp-p (V)
4 — 2.5 Vp-p (V)	5 — 2.0 Vp-p (V)	6 — 2.3 Vp-p (V)

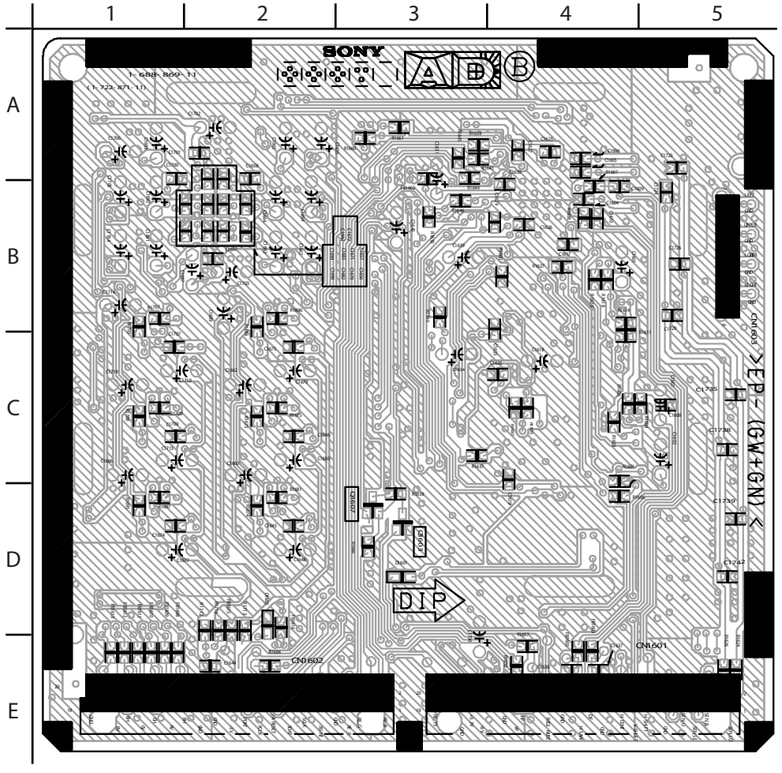
AD [DIGITAL REGI, PJED CPU, PJE DRIVE]

COMPONENT SIDE

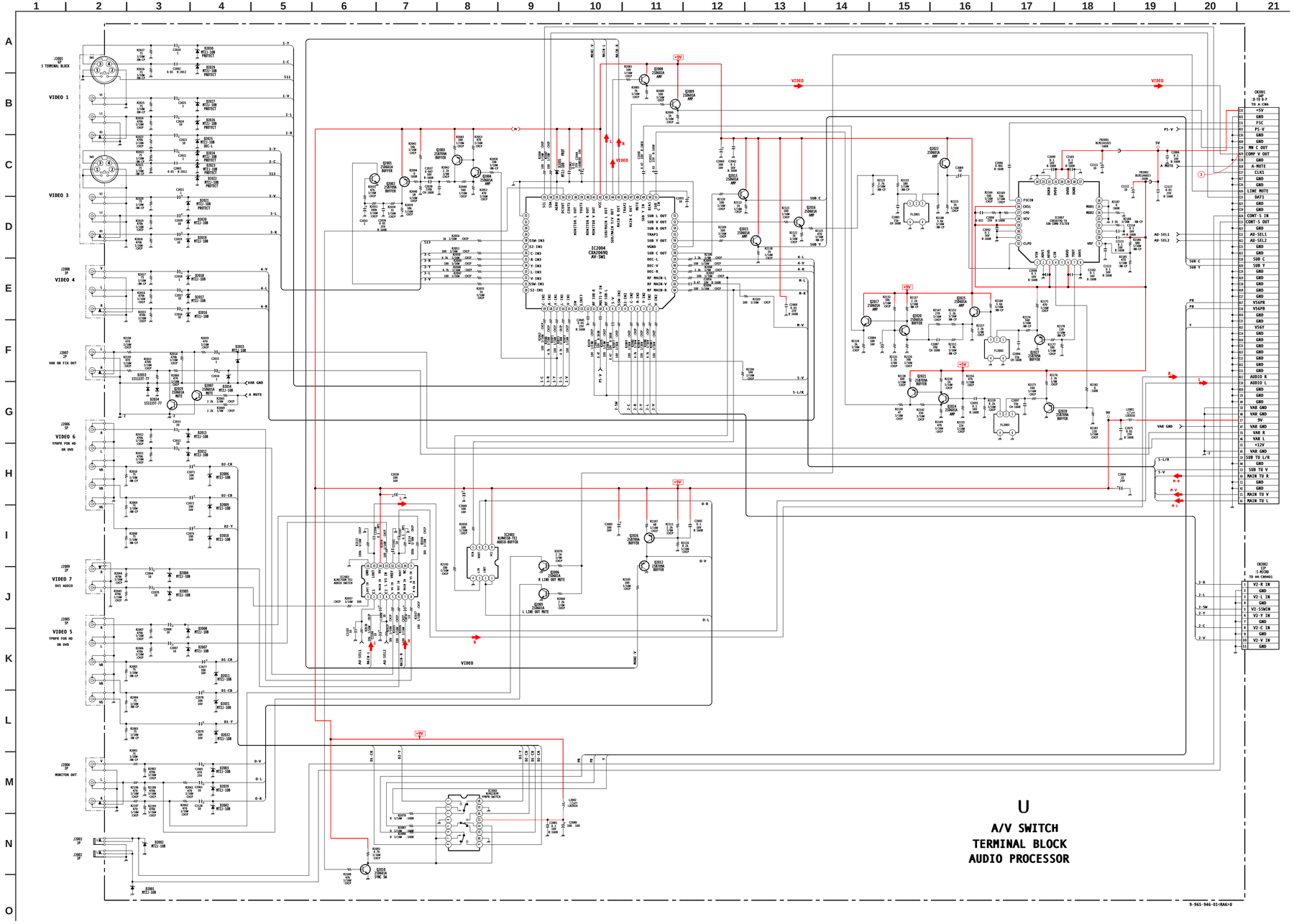


AD [DIGITAL REGI, PJED CPU, PJE DRIVE]

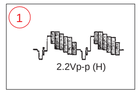
CONDUCTOR SIDE



U BOARD SCHEMATIC DIAGRAM



U BOARD WAVEFORMS



U BOARD IC VOLTAGE LIST

IC2001		IC2004		45	4.5	19	5.0
PIN	VOLT	PIN	VOLT	46	NC	20	NC
1	4.5	1	3.9	47	4.4	21	5.0
2	0.0	2	4.4	48	NC	22	GND
3	4.5	3	3.9	49	5.3	23	NC
4	0.0	4	4.4	50	4.5	24	GND
5	4.5	5	0.5	51	4.4	25	2.5
6	4.5	6	NC	52	4.5	26	5.0
7	4.5	7	4.9	53	4.9	27	2.2
8	4.5	8	4.5	54	4.5	28	2.2
9	9.0	9	4.4	55	NC	29	5.0
10	4.5	10	4.3	56	4.5	30	GND
11	4.5	11	4.4	57	GND	31	GND
12	4.5	12	4.4	58	4.3	32	1.8
13	4.5	13	NC	59	4.4	All voltages are in V.	
14	4.5	14	NC	60	3.9		
15	4.5	15	3.9	61	4.4		
16	GND	16	4.4	62	4.4		
IC2002		17	3.9	63	4.3		
PIN	VOLT	18	4.4	64	4.5		
1	4.6	19	4.4	**IC2007**			
2	5.0	20	NC	PIN	VOLT		
3	3.1	21	4.9	1	1.8		
4	GND	22	3.9	2	GND		
5	3.1	23	3.9	3	5.0		
6	3.1	24	4.4	4	1.1		
7	5.0	25	3.9	5	NC		
8	4.6	26	4.4	6	5.0		
9	4.6	27	NC	7	1.3		
10	GND	28	0.1	8	GND		
11	4.6	29	NC	9	2.0		
12	5.0	30	NC	10	2.7		
13	9.0	31	NC	11	1.0		
14	4.6	32	GND	12	2.0		
15	GND	33	4.4	13	GND		
16	4.6	34	4.4	14	0.0		
IC2003		35	GND	15	GND		
PIN	VOLT	36	0.0	16	GND		
1	4.5	37	NC	17	NC		
2	4.5	38	4.5	18	GND		
3	4.4	39	NC				
4	GND	40	4.5				
5	4.4	41	4.4				
6	4.5	42	9.0				
7	4.5	43	4.4				
8	9.0	44	4.3				

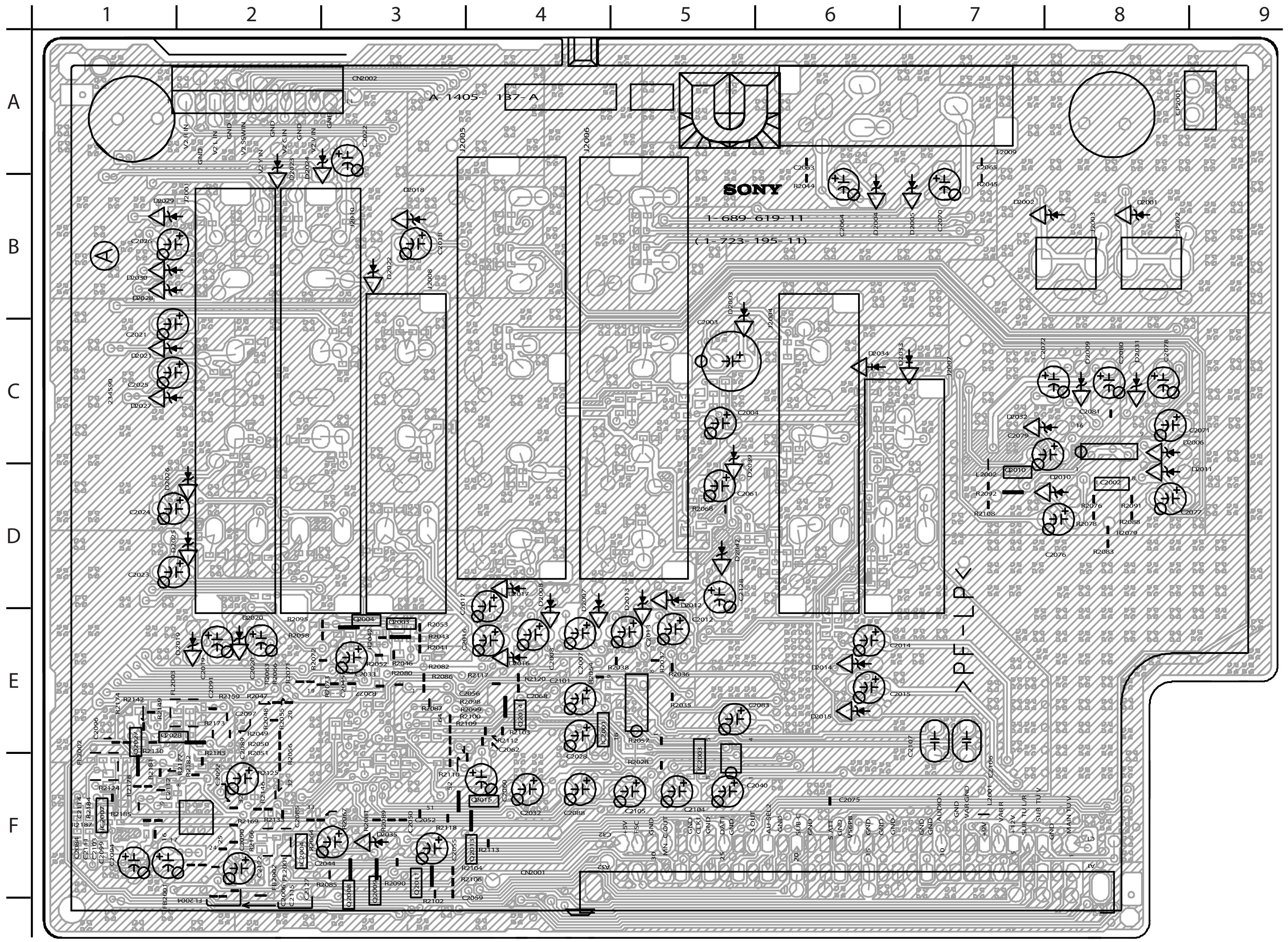
U BOARD TRANSISTOR LIST

	B	C	E
Q2001	0.1	4.9	GND
Q2002	8.4	0.1	9.0
Q2003	7.8	5.6	8.5
Q2004	3.8	7.8	3.2
Q2005	0.3	0.0	GND
Q2006	0.3	0.0	GND
Q2007	0.4	0.0	0.0
Q2008	4.3	9.0	3.7
Q2009	4.4	9.0	3.7
Q2010	0.0	5.0	GND
Q2012	4.5	GND	5.1
Q2013	4.3	9.0	3.7
Q2015	4.5	9.0	3.9
Q2016	4.7	9.0	8.7
Q2017	5.0	9.0	4.4
Q2020	1.6	5.0	1.0
Q2021	4.2	1.3	4.8
Q2022	3.3	9.0	2.7
Q2024	1.5	4.2	0.9
Q2025	2.6	9.0	2.0
Q2026	7.2	5.1	7.9
Q2027	1.3	GND	2.0
Q2028	1.1	GND	1.7
Q2029	0.4	0.0	GND

All voltages are in V.

U [AV SWITCH, TERMINAL BLOCK, AUDIO PROCESSOR]

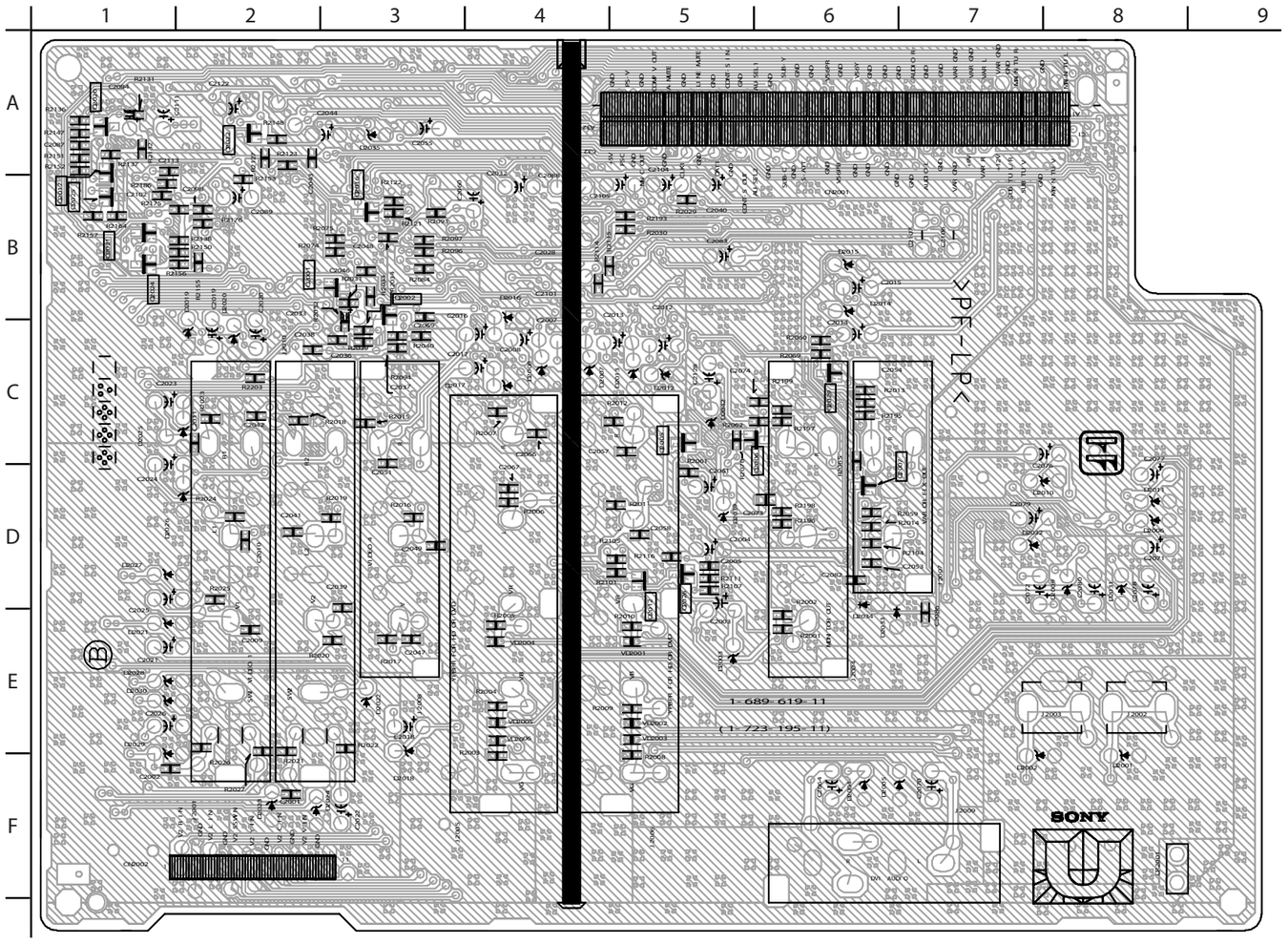
COMPONENT SIDE



U

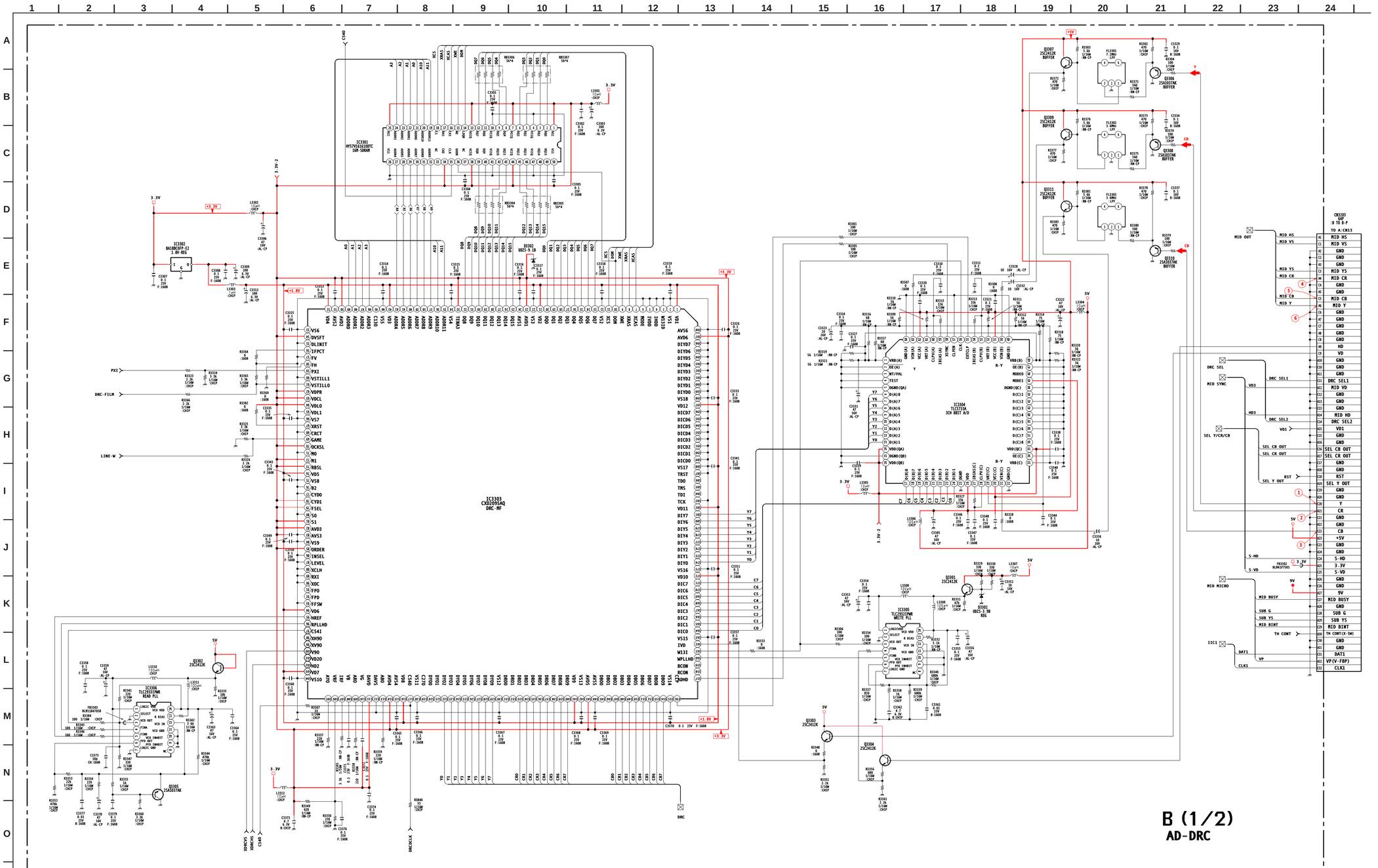
[AV SWITCH, TERMINAL BLOCK, AUDIO PROCESSOR]

CONDUCTOR SIDE

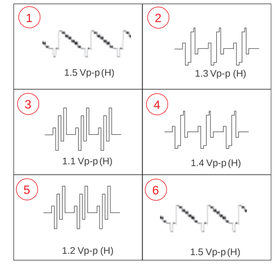


B BOARD SCHEMATIC DIAGRAM (1 OF 2)

Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

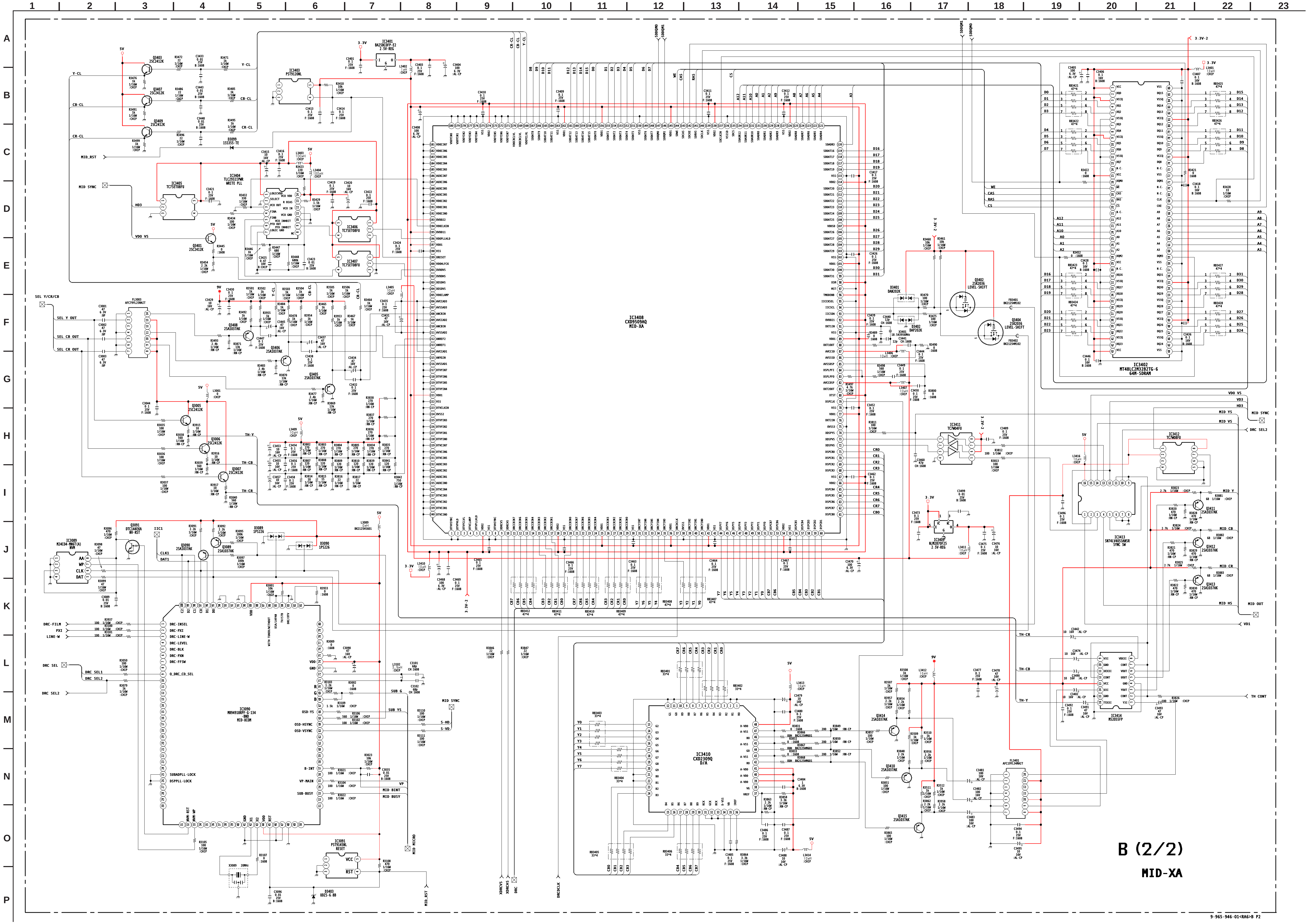


B BOARD WAVEFORMS



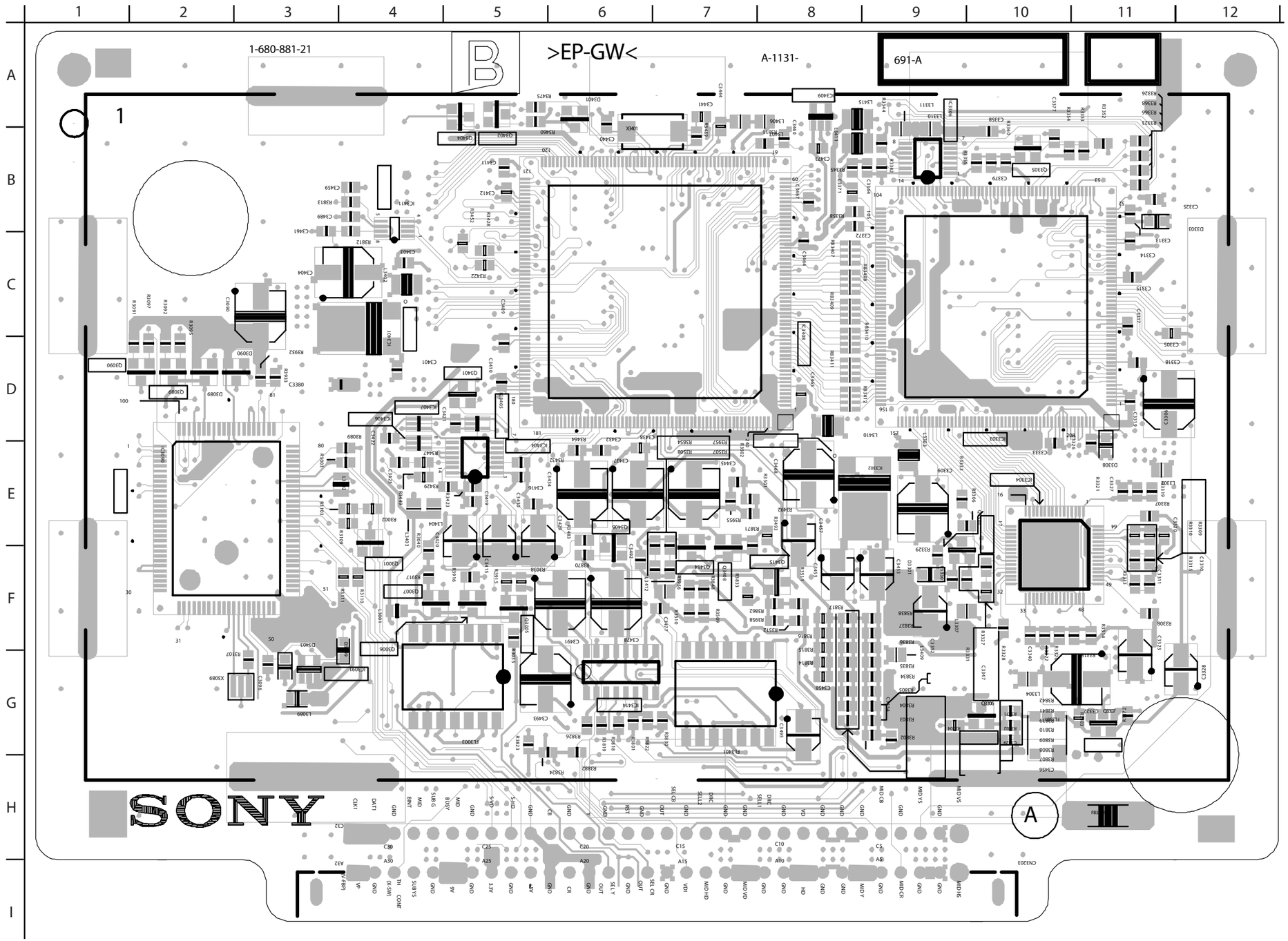
B BOARD SCHEMATIC DIAGRAM (2 OF 2)

Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.


IC3401 BA25BC0FP-E2 2.5V-REG
IC3403 PST9120NL
IC3404 TLC2932IPWR WRITE PLL
IC3405 TC7SET08FU
IC3406 TC7SET08FU
IC3407 TC7SET08FU
IC3408 CXD9509AQ MID-XA
IC3402 MT48LC2M32B2TG-6 64M-SDRAM
IC3409 NJM2870F25 2.5V-REG
IC3410 CXD2309Q D/A
IC3411 TC7W04FU
IC3412 TC7W08FU
IC3413 SN74LV4053ANSR SYNC SW
IC3414 M52055FP
IC3089 M24C04-MN6T(A) NVM
IC3090 MB94918RPF-G-134-BND MID-UCOM
IC3091 PST9145NL RESET
FL3003 AFC79YL25MAIT
FL3401 AFC19YL34MAIT
Q3402 2SK2036 LEVEL-SHIFT
Q3404 2SK2036 LEVEL-SHIFT
Q3091 DTC144EKA NV-RST
X3089 20MHz
X3401 18.543956MHz
SEL Y/CR/CB
SEL Y OUT
SEL CB OUT
SEL CR OUT
MID_RST
MID SYNC
MID OUT
MID MICRO
DRC SEL
DRC SEL2
TH CONT
B (2/2)
MID-XA
9-965-946-01<RA6>B P2

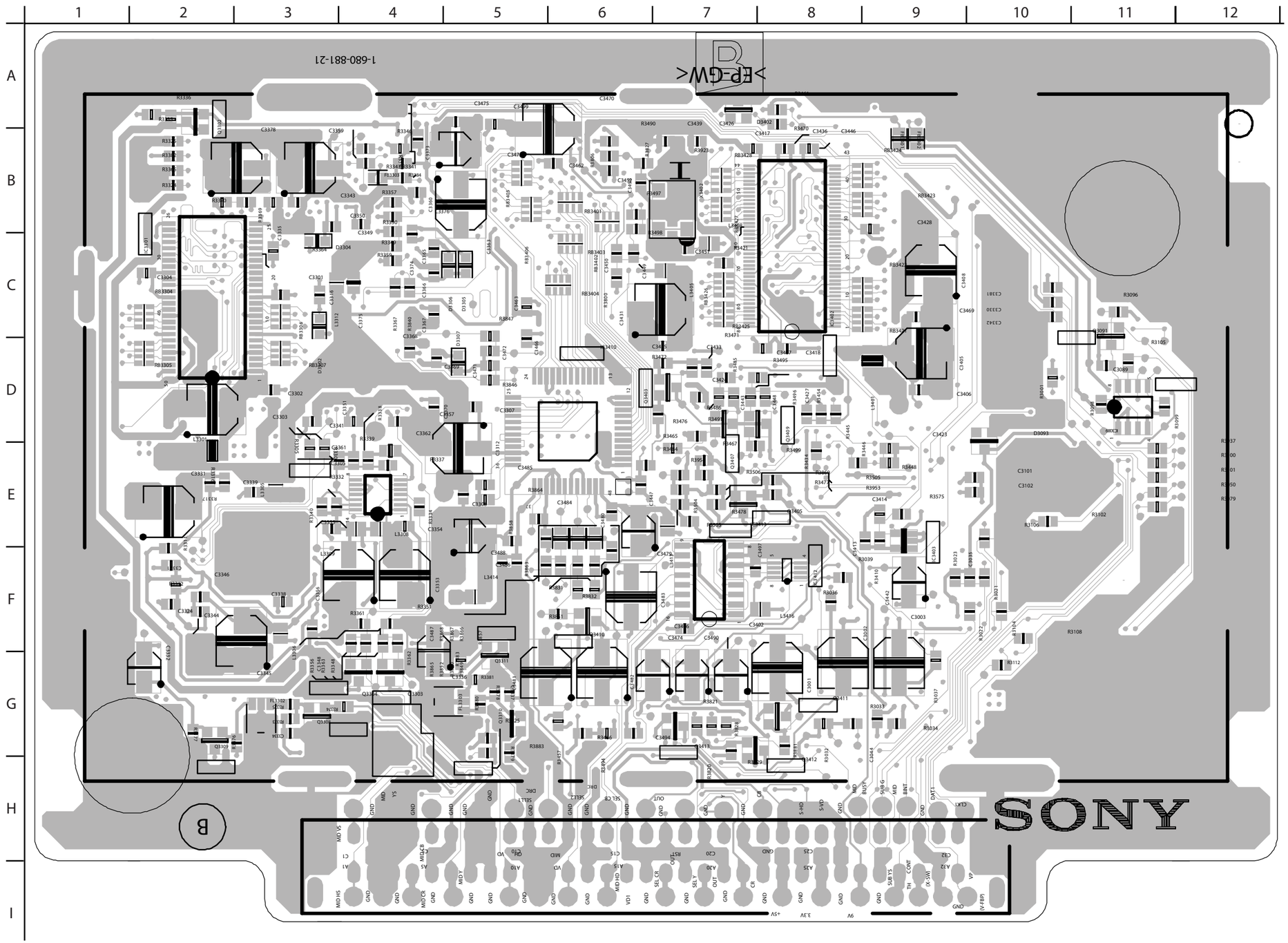
B [AD-DRC, MID-XA]

COMPONENT SIDE

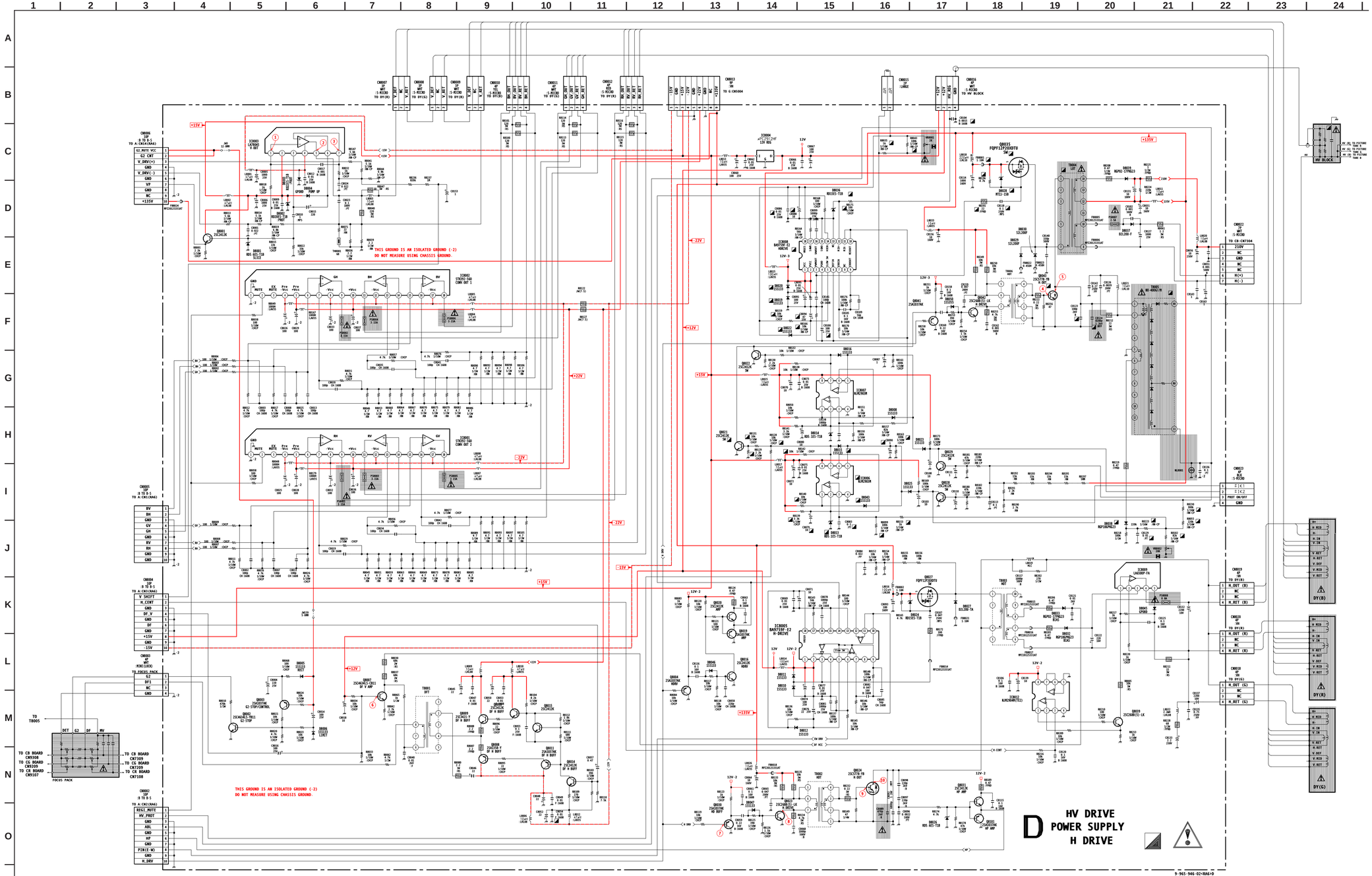


B [AD-DRC, MID-XA]

CONDUCTOR SIDE



D BOARD SCHEMATIC DIAGRAM


THIS GROUND IS AN ISOLATED GROUND (-2)
DO NOT MEASURE USING CHASSIS GROUND.
THIS GROUND IS AN ISOLATED GROUND (-2)
DO NOT MEASURE USING CHASSIS GROUND.
D HV DRIVE
POWER SUPPLY
H DRIVE
9-965-946-02<RA6>D

D BOARD WAVEFORMS

1	500 mVp-p (V)	2	53.2 Vp-p (V)
3	500 mVp-p (V)	4	14.7 Vp-p (H)
5	940 Vp-p (H)	6	6.5 Vp-p (V)
7	3.5 Vp-p (H)	8	104 Vp-p (H)
9	7.6 Vp-p (H)	10	1030 Vp-p (H)

D BOARD IC VOLTAGE LIST

IC8001		14	0.3	15	GND	10	7.4
PIN	VOLT	15	0	16	3.2	11	7.4
1	GND	16	0	17	2.6	12	7.4
2	4.3	17	-22	18	9.1	13	GND
3	N/C	18	0.1	IC8006		14	7.1
4	-22.0	IC8003		PIN	VOLT	15	GND
5	22.0	PIN	VOLT	1	0.1	16	3.2
6	-0.3	1	1.3	2	5.0	17	2.6
7	-0.3	2	15.0	3	4.5	18	9.1
8	-22.0	3	-13.1	4	GND	IC8009	
9	-0.5	4	-15.0	5	0.0	PIN	VOLT
10	22.0	5	0.4	6	5.0	1	98.2
11	0.1	6	15.0	7	0.1	2	98.2
12	-22.0	7	1.3	8	15.0	3	94.0
13	0.0	IC8004		IC8007		4	97.8
14	0.0	PIN	VOLT	PIN	VOLT	5	101.1
15	0.0	I	15.0	1	0.1	IC8010	
16	0.0	O	12.0	2	5.0	PIN	VOLT
17	-22.0	G	GND	3	4.0	I	7.0
18	0.1	IC8005		4	GND	O	5.0
IC8002		PIN	VOLT	5	0.0	G	GND
PIN	VOLT	1	12.0	6	5.0	IC8012	
1	GND	2	12.0	7	0.1	PIN	VOLT
2	4.3	3	5.8	8	15.0	1	2.7
3	N/C	4	GND	IC8008		2	2.1
4	-22.0	5	3.8	PIN	VOLT	3	2.1
5	22.0	6	3.8	1	12.0	4	GND
6	-0.1	7	3.8	2	12.0	5	GND
7	-0.1	8	N/C	3	6.0	6	0.0
8	-22.0	9	3.8	4	GND	7	0.0
9	0.0	10	3.6	5	8.0	8	12.0
10	22.0	11	3.6	6	7.4		
11	0.5	12	3.6	7	7.4		
12	-22.0	13	GND	8	N/C		
13	0.3	14	7.1	9	3.3		

All voltages are in V.

D BOARD TRANSISTOR LIST

	B	C	E		B	C	E
Q8001	-0.4	15.0	0.1	Q8022	0.0	8.9	GND
Q8002	0	13.0	GND	Q8023	-0.5	68.0	GND
Q8003	14.6	0.0	14.6	Q8024	0.1	242.0	GND
Q8004	3.4	GND	4.0	Q8028	0.5	0.0	GND
Q8005	3.4	GND	4.1	Q8029	0.5	0.0	GND
Q8007	5.8	204.0	5.2	Q8030	3.4	GND	4.0
Q8008	2.8	-22.0	3.3	Q8031	0.2	12.0	0.6
Q8009	4.0	22.0	3.4	Q8032	3.4	4.1	GND
Q8010	4.5	22.0	4.0	Q8036	8.9	GND	8.7
Q8011	2.3	-22.0	2.7	Q8037	8.9	14.6	8.7
Q8014	-20.0	2.3	-20.6	Q8039	2.7	76.7	2.1
Q8015	2.9	4.5	2.3	Q8041	3.4	GND	8.9
Q8016	-0.3	7.4	GND	Q8042	9.6	29.8	GND
Q8019	7.4	GND	7.2	Q8043	8.9	192.0	0.1
Q8020	7.4	12.0	7.2	Q8044	0.6	0.0	GND
Q8021	0.0	8.9	GND	Q8101	0.2	GND	0.6
				Q8038	8.9	192.0	0.6

All voltages are in V.

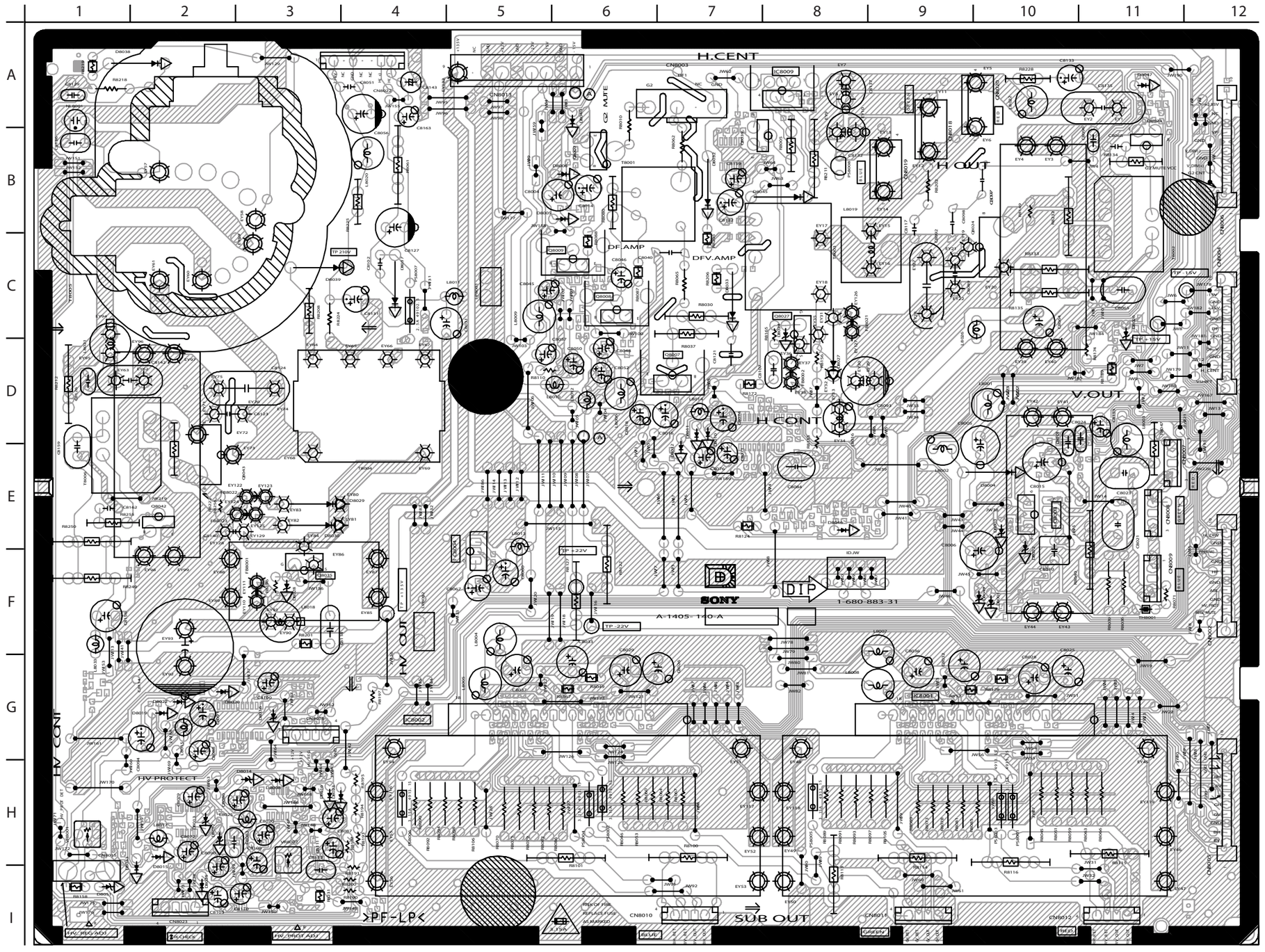
	D	G	S
Q8027	115.6	130.9	135.9
Q8035	115.6	130.9	135.9

All voltages are in V.

D

[HV DRIVE, POWER SUPPLY, H DRIVE]

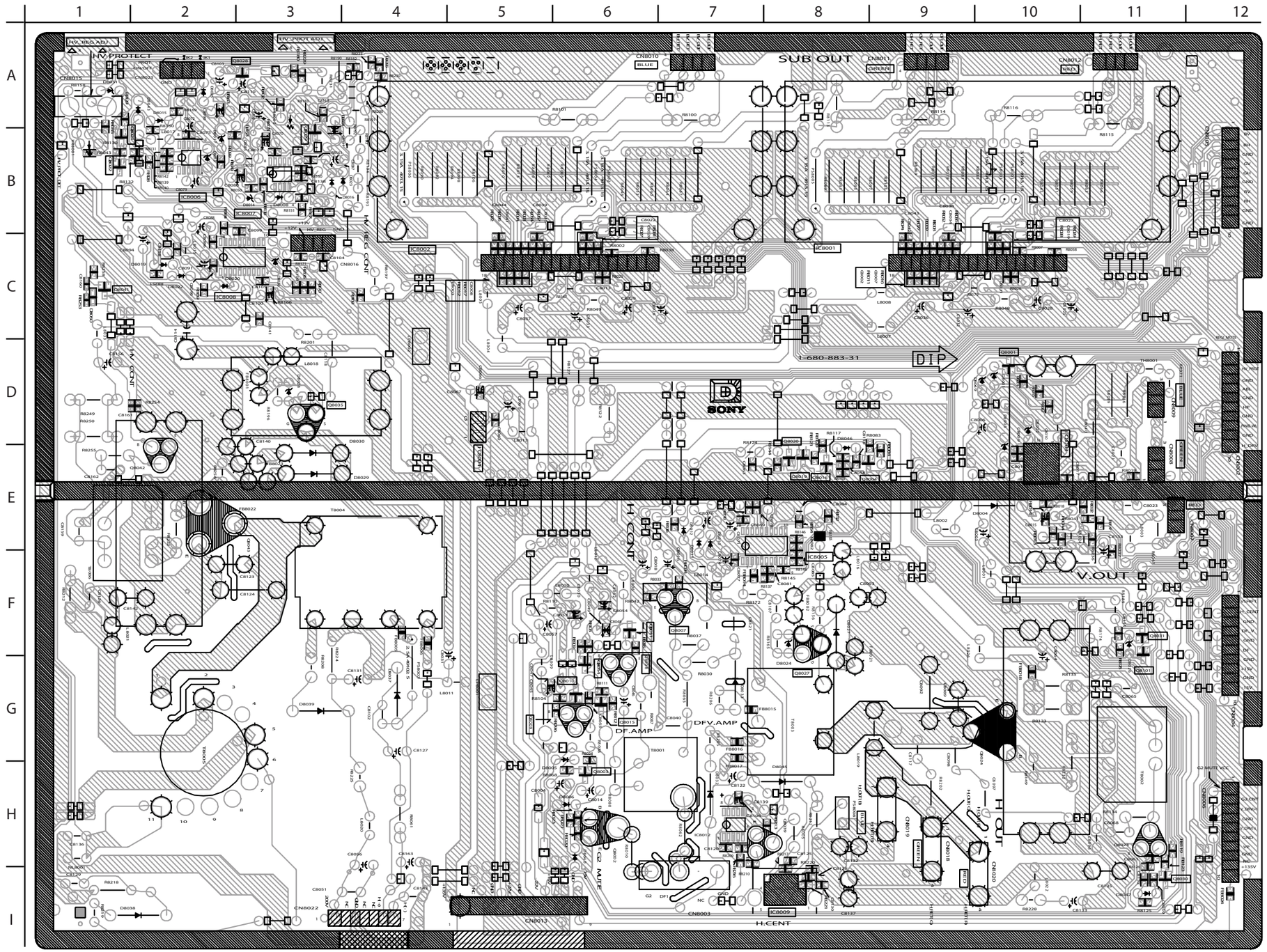
COMPONENT SIDE



D

[HV DRIVE, POWER SUPPLY, H DRIVE]

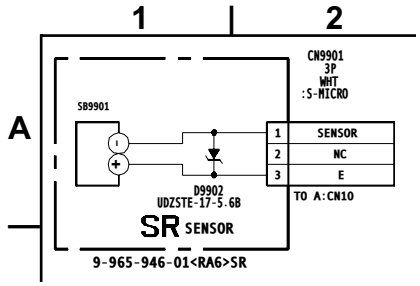
CONDUCTOR SIDE



D BOARD LOCATOR LIST

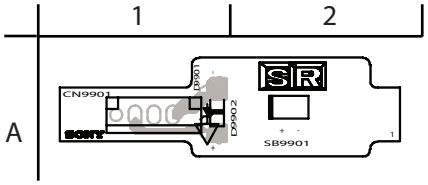
DIODE		IC	
D8001	D-10	IC8001	C-8
D8002	D-10	IC8002	C-4
D8003	D-10	IC8003	E-10
D8004	E-10	IC8004	E-5
D8005	H-6	IC8005	F-8
D8006	H-6	IC8006	B-2
D8007	D-10	IC8007	B-3
D8008	B-3	IC8008	C-2
D8009	C-1	IC8009	I-8
D8010	E-11	IC8012	H-7
D8011	E-11	**TRANSISTOR**	
D8012	E-11	Q8001	D-10
D8013	B-2	Q8002	H-6
D8014	B-3	Q8003	H-6
D8015	A-2	Q8004	E-9
D8016	B-3	Q8005	C-1
D8019	C-2	Q8007	F-7
D8020	C-2	Q8008	G-6
D8021	F-9	Q8009	G-5
D8022	C-2	Q8010	G-6
D8023	B-3	Q8011	F-6
D8024	G-7	Q8014	G-6
D8025	A-2	Q8015	G-6
D8026	G-11	Q8016	E-8
D8027	F-8	Q8019	E-8
D8028	D-3	Q8020	D-8
D8029	E-4	Q8021	B-1
D8030	E-4	Q8022	B-1
D8031	D-2	Q8023	H-11
D8032	H-7	Q8024	G-10
D8033	G-7	Q8027	F-8
D8034	E-2	Q8028	A-2
D8035	E-2	Q8029	B-3
D8036	C-3	Q8030	I-11
D8037	G-4	Q8031	F-11
D8038	I-2	Q8032	C-1
D8039	G-4	Q8035	D-3
D8043	B-1	Q8036	D-1
D8045	H-8	Q8037	D-1
D8046	D-8	Q8038	D-1
D8047	I-11	Q8039	H-8
		Q8101	G-11

SR BOARD SCHEMATIC DIAGRAM



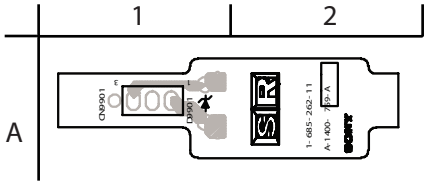
SR [SENSOR]

COMPONENT SIDE

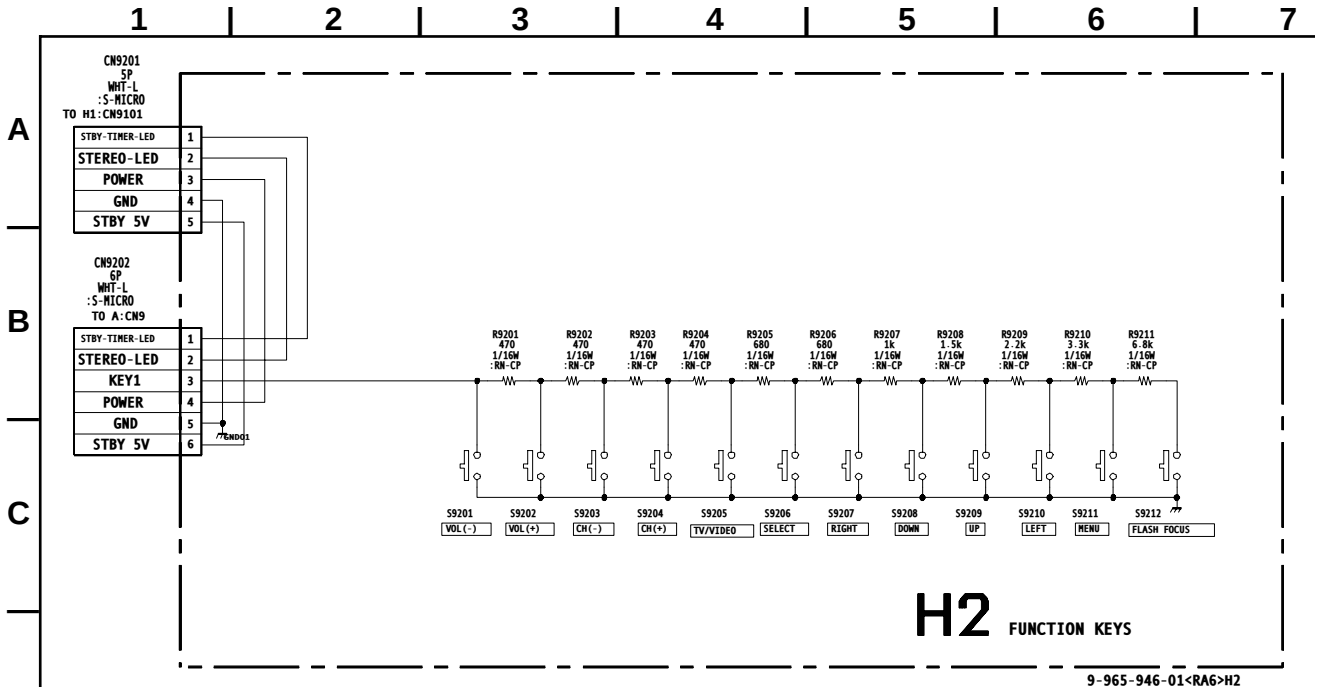


SR [SENSOR]

CONDUCTOR SIDE

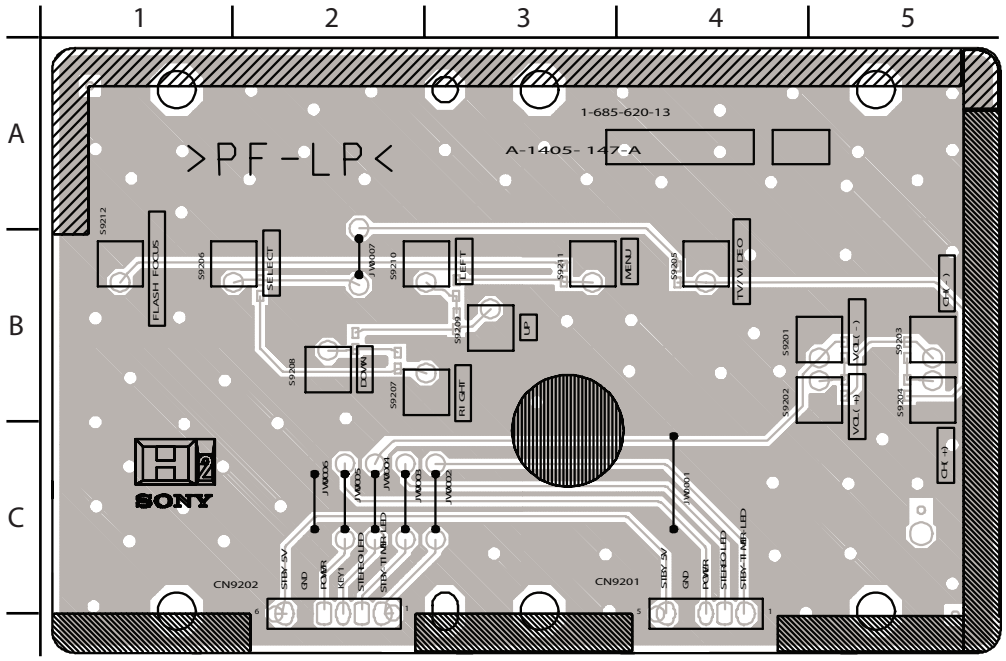


H2 BOARD SCHEMATIC DIAGRAM



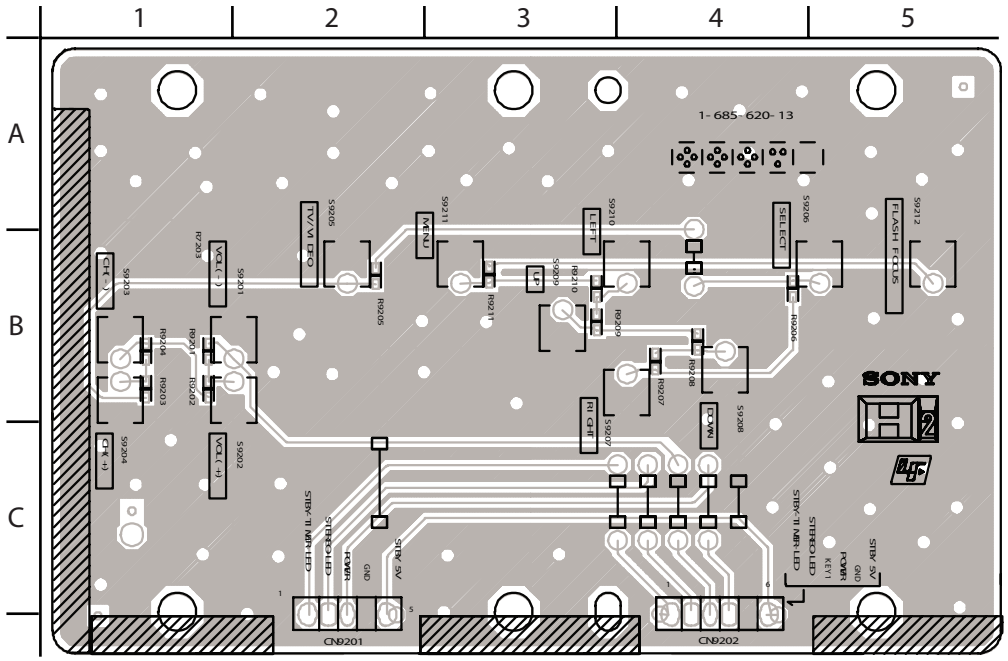
H2 [FUNCTION KEYS]

COMPONENT SIDE

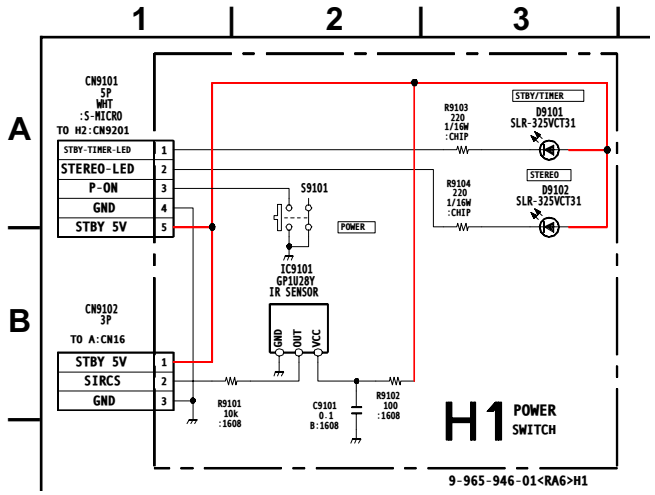


H2 [FUNCTION KEYS]

CONDUCTOR SIDE

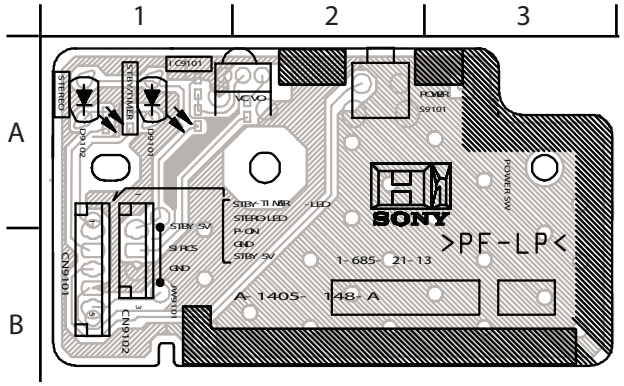


H1 BOARD SCHEMATIC DIAGRAM



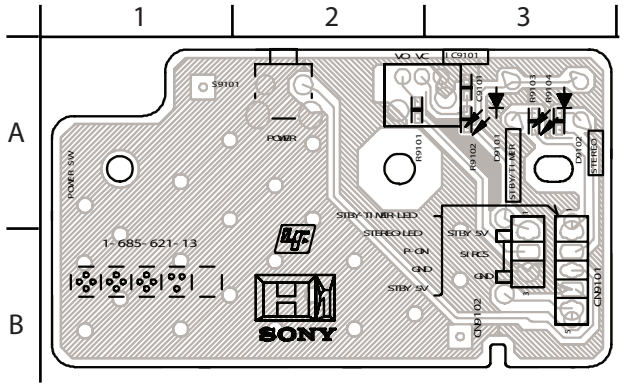
H1 [POWER SWITCH]

COMPONENT SIDE

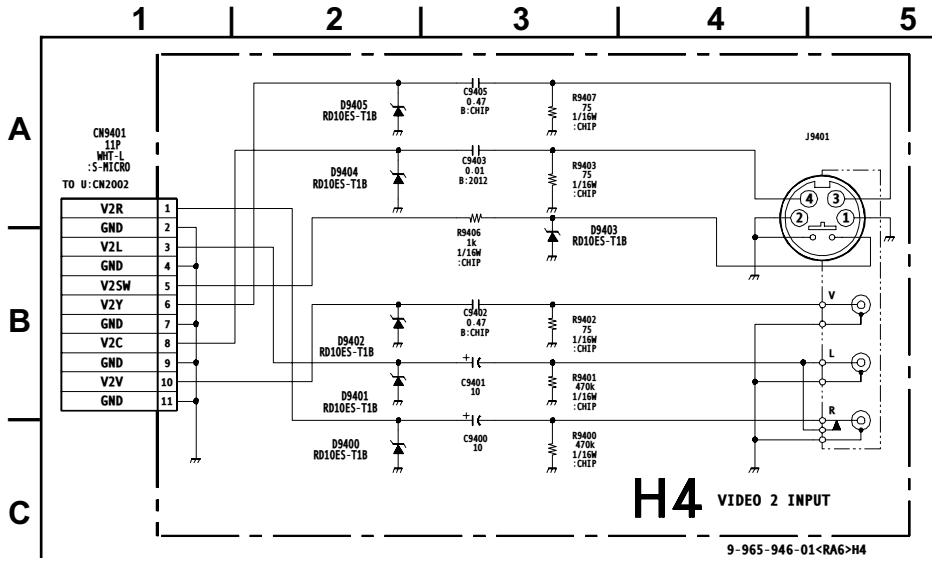


H1 [POWER SWITCH]

CONDUCTOR SIDE

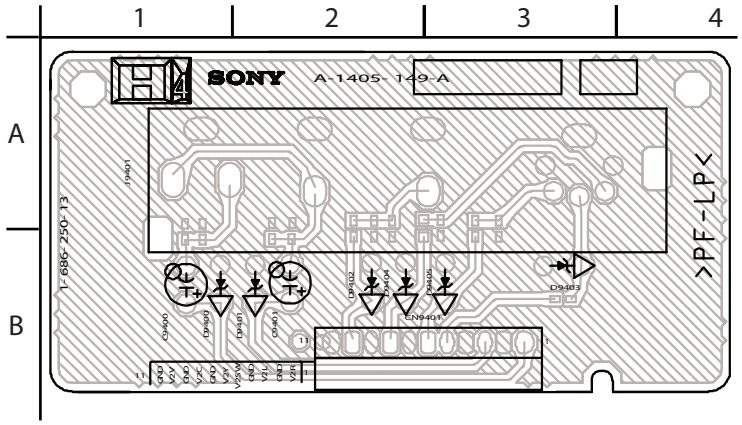


H4 BOARD SCHEMATIC DIAGRAM



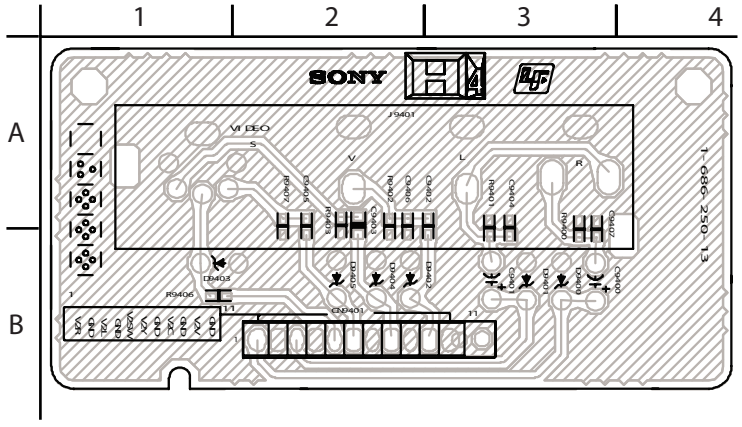
H4 [VIDEO 2 INPUT]

COMPONENT SIDE



H4 [VIDEO 2 INPUT]

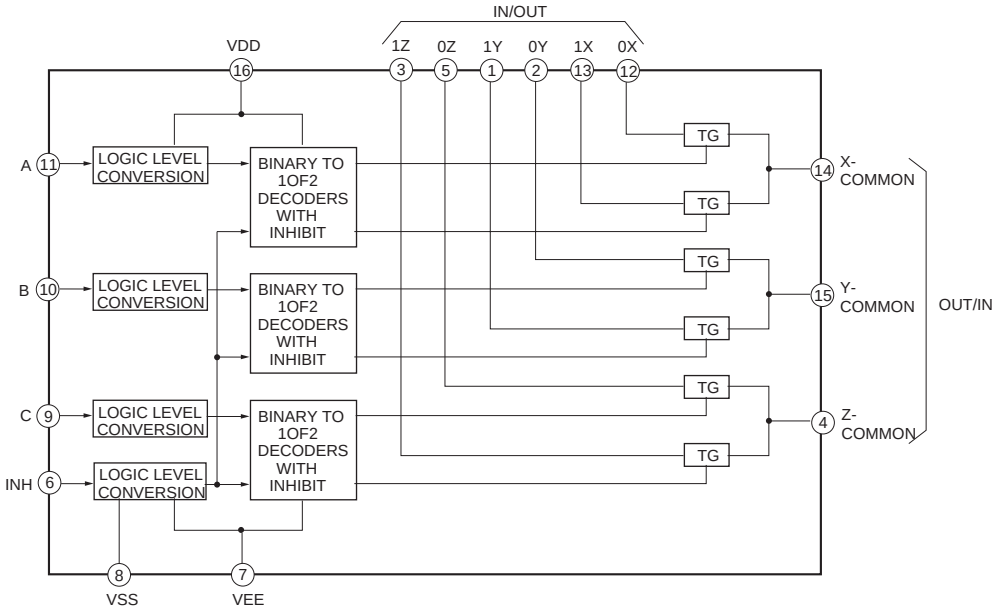
CONDUCTOR SIDE



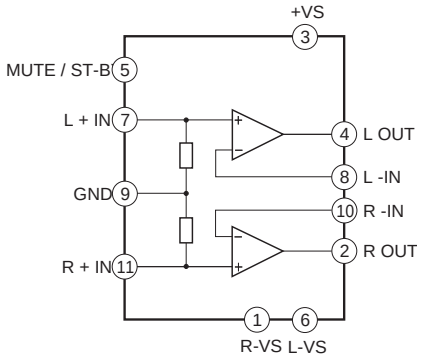
5-5. IC BLOCK DIAGRAMS

A BOARD

IC305, 307 SN74LV4053ANSR

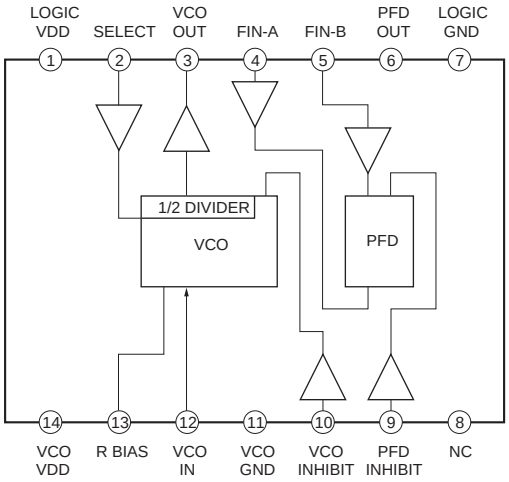


IC305, TDA7265

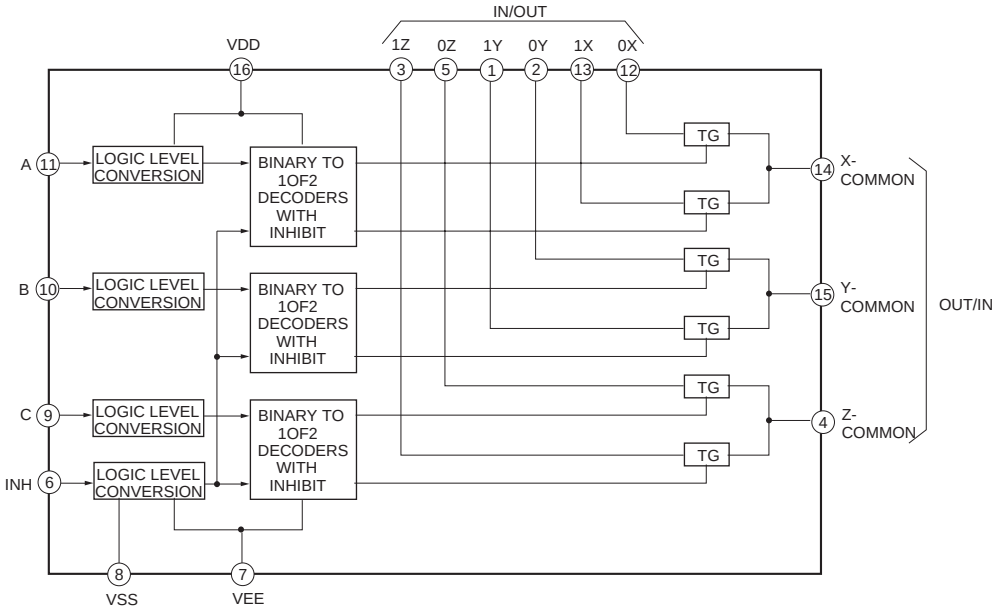


B BOARD

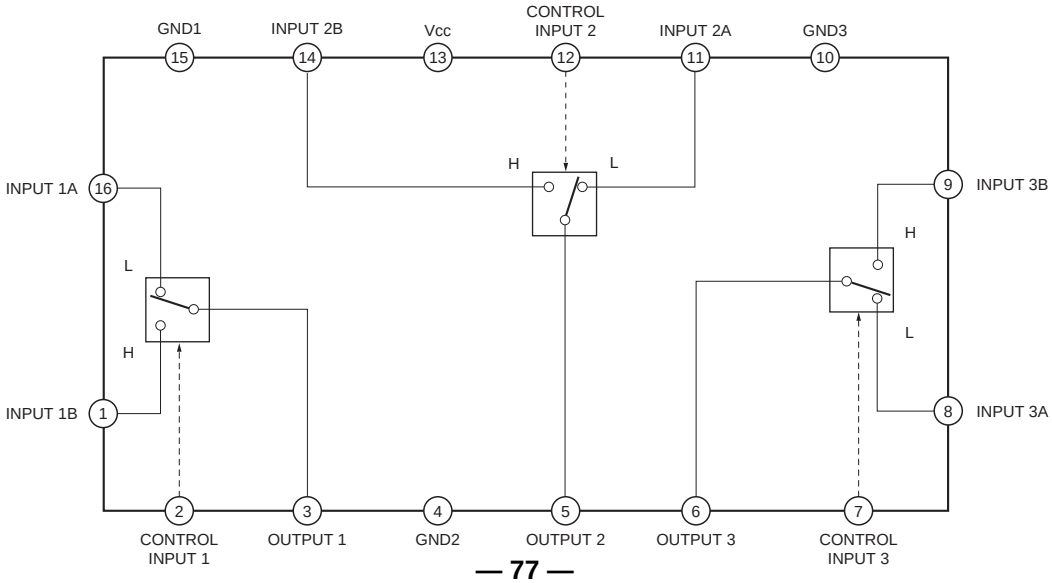
IC3305, 3404 TLC2932IPWR



IC3413 SN74LV4053ANSR

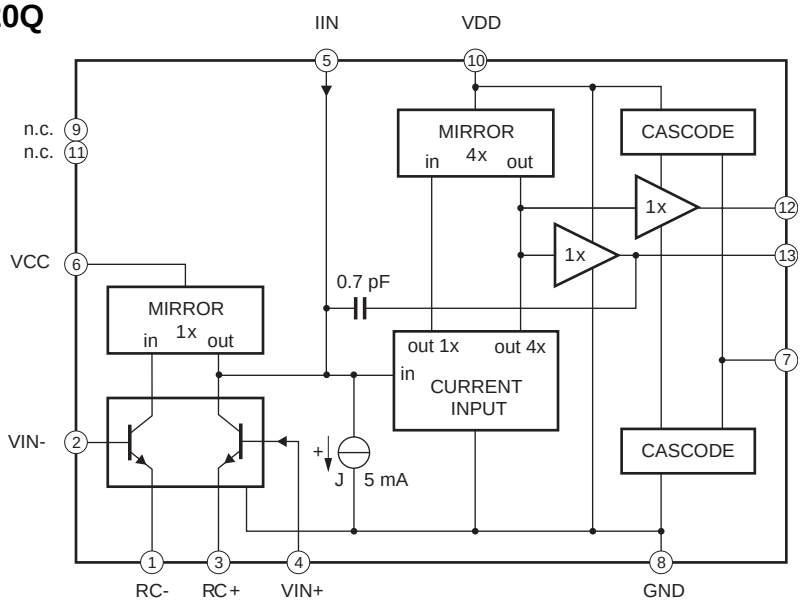


IC3414 M52055P



CR BOARD

IC7101 TDA6120Q



CG BOARD

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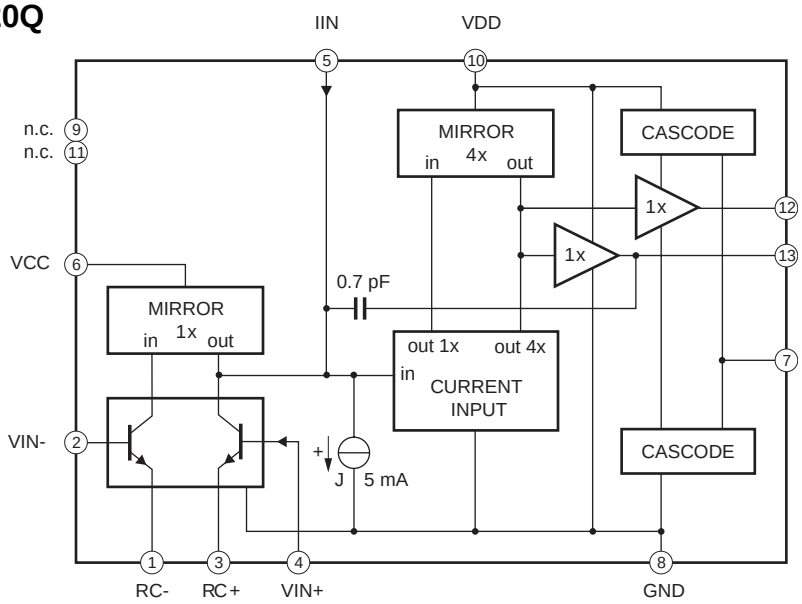

CB BOARD

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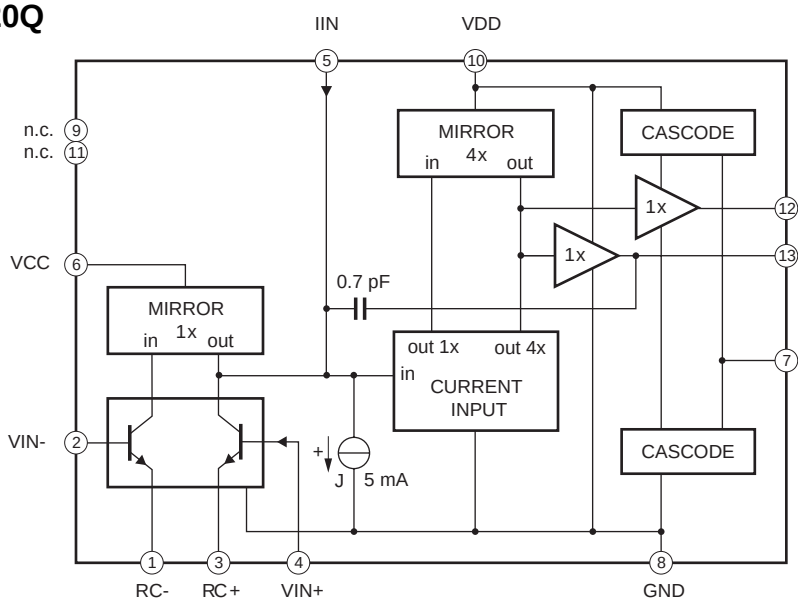
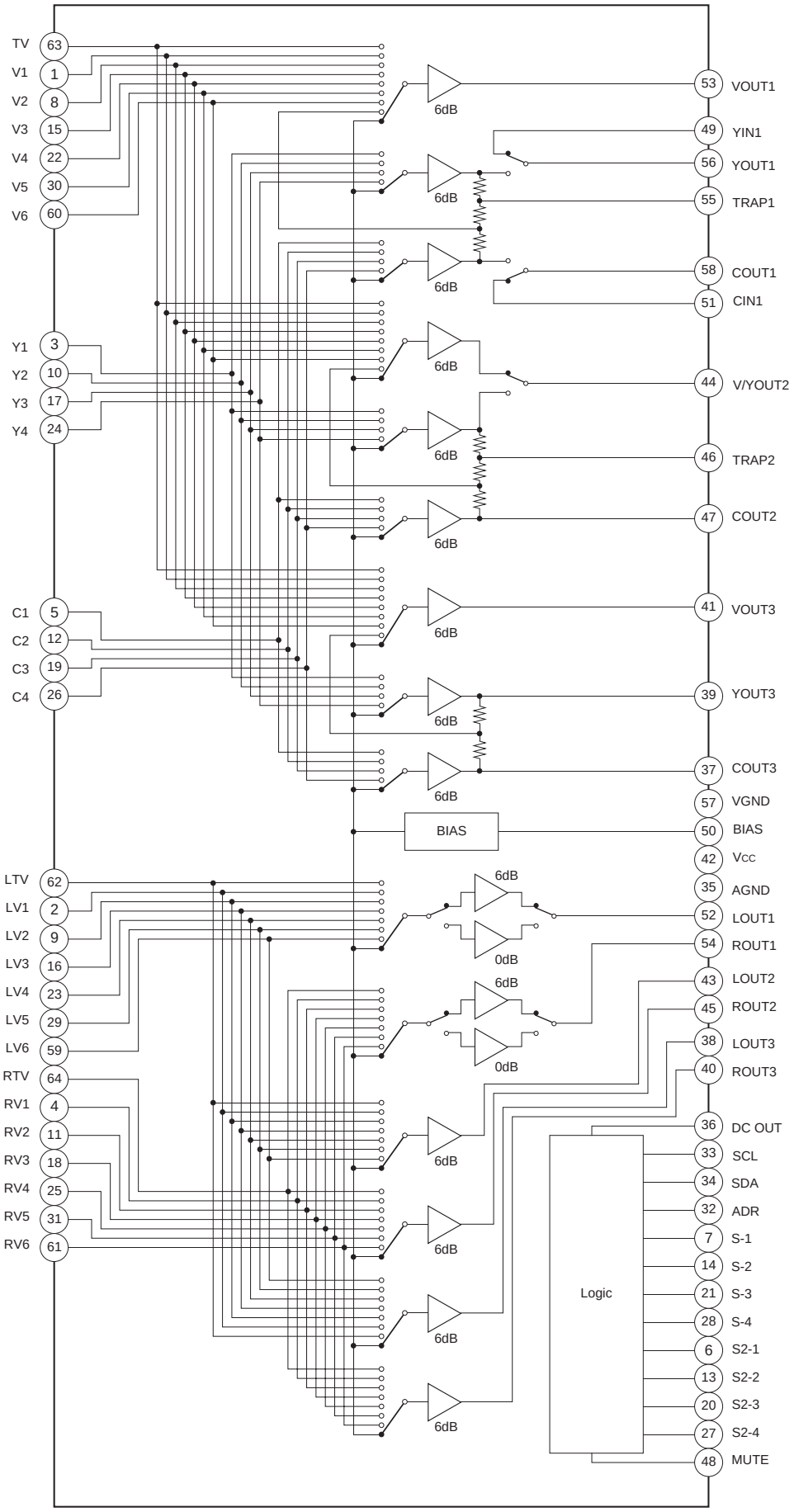


U BOARD

IC2004 CXA2069Q



5-6. SEMICONDUCTORS

1SS83TD
21DP05
D1NL40-TR2
D1NS4
D2L20U
EL1Z
GP08DPKG23
RD10ES-B2
RD15ES-B2
RD18ES-B2
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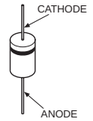

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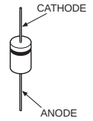
ERC04-06SE
ERC91-02



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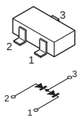

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DTZ-10B
DTZ-TT11-6.8B
UDZS-TE-17-7.5B
UDZ-TE-17-10B
UDZS-TE-17-10B
UDZS-TE-17-18B
UDZS-TE-17-22B
UDZS-TE-17-24B
UDZS-TE-17-3.9B
UDZS-TE-17-33B
UDZS-TE-17-4.7B
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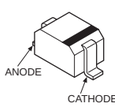

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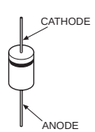

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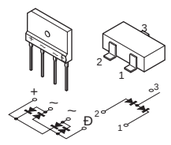
D6SB60L



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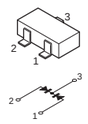

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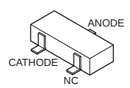

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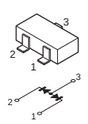

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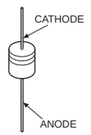
MTZJ-T-77-22B



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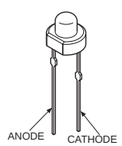

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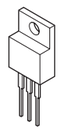

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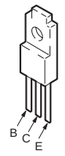

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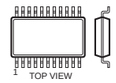

18pin SOP

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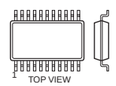

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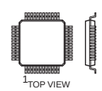

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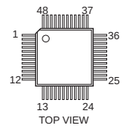

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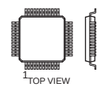

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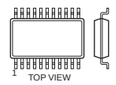

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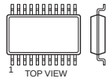

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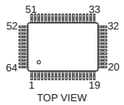
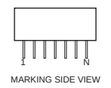


DM-58



14pin DIP

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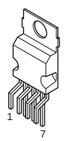

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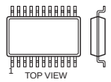

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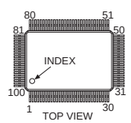

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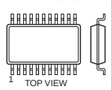

40pin SOP

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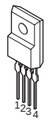

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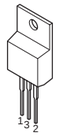

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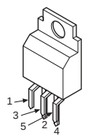

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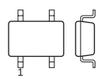

5pin CHIP

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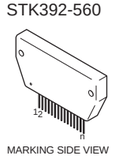

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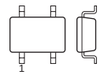
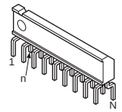


8pin CHIP

TDA6120Q / N2/S2



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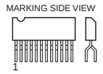

11pin ZIP

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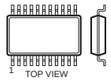

14pin SOP

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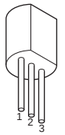

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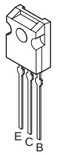

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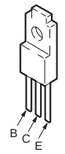

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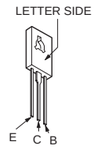

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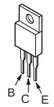

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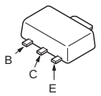

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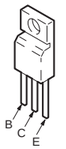


SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

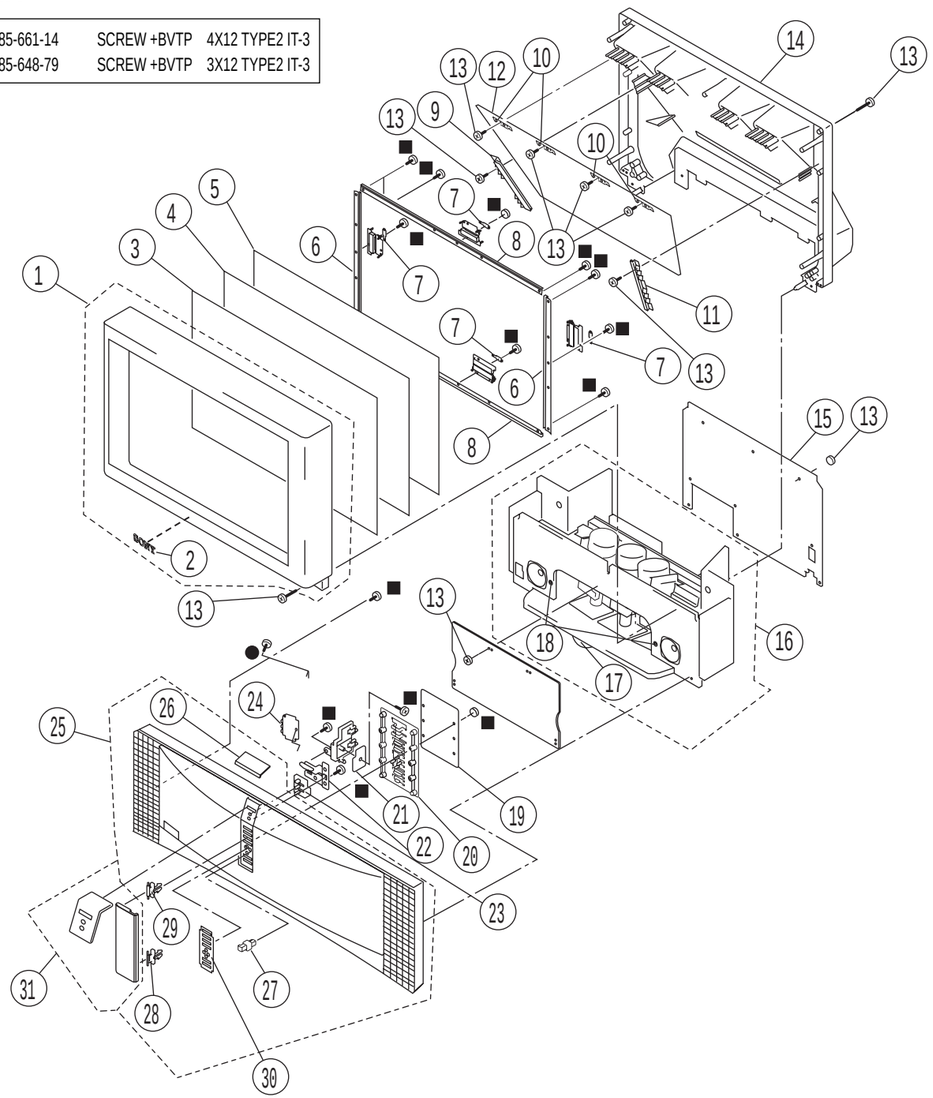
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. COVER

● 7-685-661-14 SCREW +BVTP 4X12 TYPE2 IT-3
■ 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3



REF.NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES
1	X-4041-069-2	BEZNET (46) ASSY	(2)
2	3-704-179-01	EMBLEM (NO.9), SONY	
3	4-090-943-11	SCREEN (46W), CONTRAST	
4	4-090-944-11	PLATE (46WL), DIFFUSION	
5	4-090-945-11	PLATE (46WF), DIFFUSION	
* 6	4-084-568-31	HOLDER, SCREEN	
* 7	A-1400-759-A	SR BOARD, MOUNTED	
* 8	4-084-568-21	HOLDER, SCREEN	
* 9	4-091-245-01	HOLDER (46L), MIRROR	
* 10	4-081-501-01	HOLDER, MIRROR	
* 11	4-091-246-01	HOLDER (46R), MIRROR	
12	4-090-957-01	MIRROR (46)	
13	4-081-063-01	SCREW,DOME WASHER HEX TAP 4X20	
* 14	4-090-956-03	COVER (46), MIRROR	
* 15	4-090-950-01	BOARD, REAR	

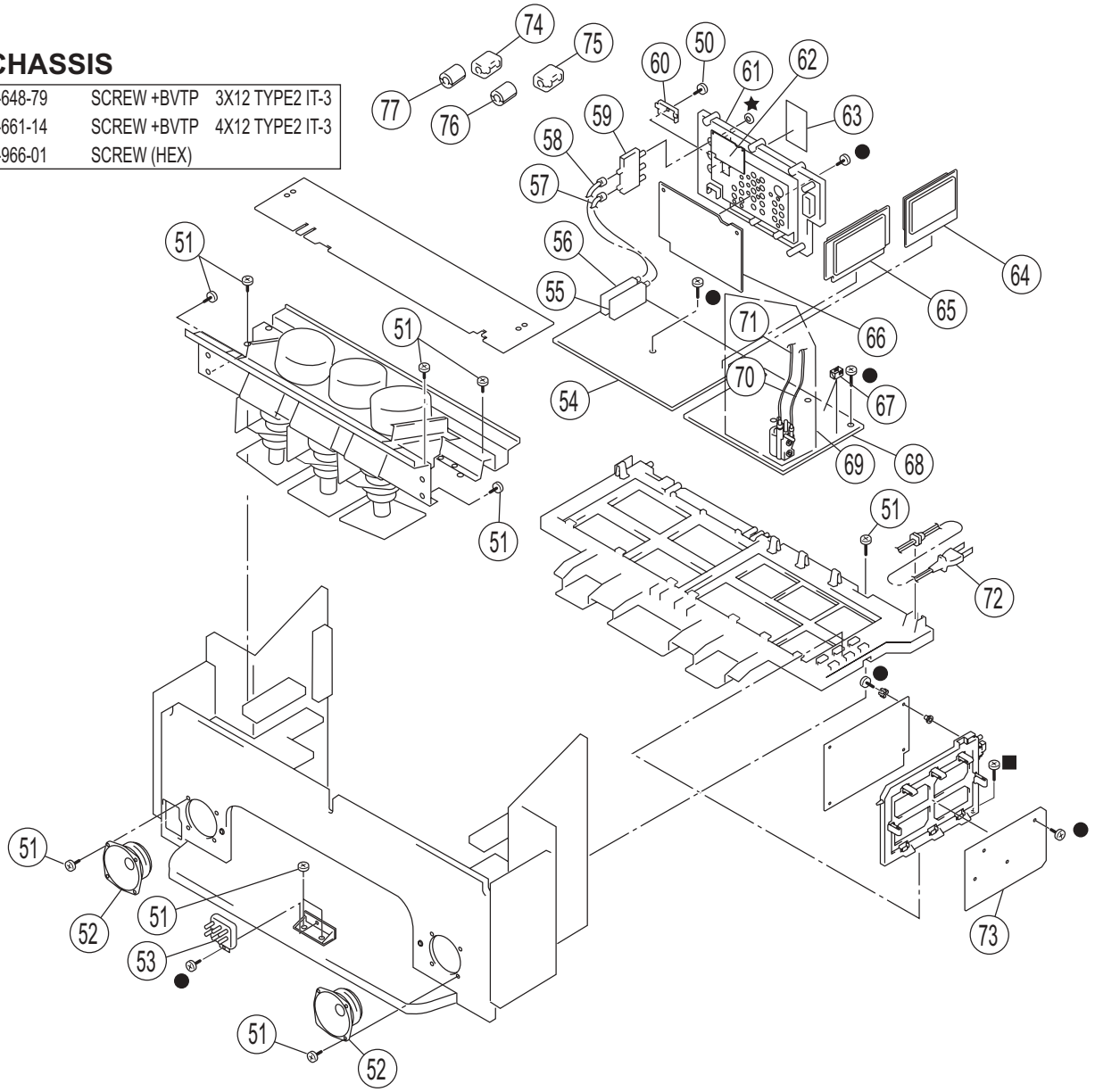
REF.NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES
* 16	X-4041-809-1	CABINET ASSY, BOTTOM (46)	(17-18)
17	4-084-920-01	FOOT	
18	4-084-932-21	CATCH (S)	
* 19	A-1405-147-A	H2 BOARD, MOUNTED	
20	4-082-284-01	BUTTON, MULTI	
* 21	A-1405-148-A	H1 BOARD, MOUNTED	
22	4-082-283-01	BUTTON, POWER	
23	4-083-733-01	GUIDE (HW), LED	
* 24	A-1405-149-A	H4 BOARD, MOUNTED	
25	X-4041-068-2	GRILLE ASSY, SPEAKER (46)	(25-29)
26	4-090-952-02	DOOR, TERMINAL	
27	4-042-192-01	CATCHER, PUSH	
28	3-703-035-11	SHAFT, LID	
29	4-045-250-01	DAMPER	
30	4-082-291-03	LABEL, CONTROL	
31	4-092-070-11	PANEL ASSY, FRONT	
32	4-090-954-01	DOOR, CONTROL	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. CHASSIS

● 7-685-648-79	SCREW +BVTP	3X12 TYPE2 IT-3
■ 7-685-661-14	SCREW +BVTP	4X12 TYPE2 IT-3
★ 4-635-966-01	SCREW (HEX)	



	REF. NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES
	51	4-081-063-01	SCREW,DOME WASHER HEX TAP 4X20	
	52	1-544-893-21	SPEAKER (10CM)	
⚠	53	1-223-925-34	RESISTOR ASSY (HIGH-VOLTAGE)	
☛	54	A-1302-586-A	A BOARD, COMPLETE	(54, 62, 64, & 65)
☛	54	A-1405-136-A	A BOARD, MOUNTED	
	55	8-598-594-10	TUNER, FSS BTF-FA421	
	56	8-598-593-20	TUNER, FSS BTF-WA421	
*	57	1-557-056-31	CABLE, P-P	
*	58	1-556-945-21	CABLE, P-P	
⚠	59	1-771-787-13	SWITCH, RF ANTENNA	
	60	4-069-675-01	CAP, TERMINAL BOARD	
	61	4-089-438-02	BOARD, TERMINAL	
*	62	A-1300-324-A	UD BOARD, COMPLETE	
	63	4-089-194-01	LABEL, TERMINAL	
*	64	A-1302-179-A	AD BOARD, COMPLETE	
*	65	A-1302-209-A	B BOARD, COMPLETE	
*	66	A-1302-178-A	U BOARD, COMPLETE	

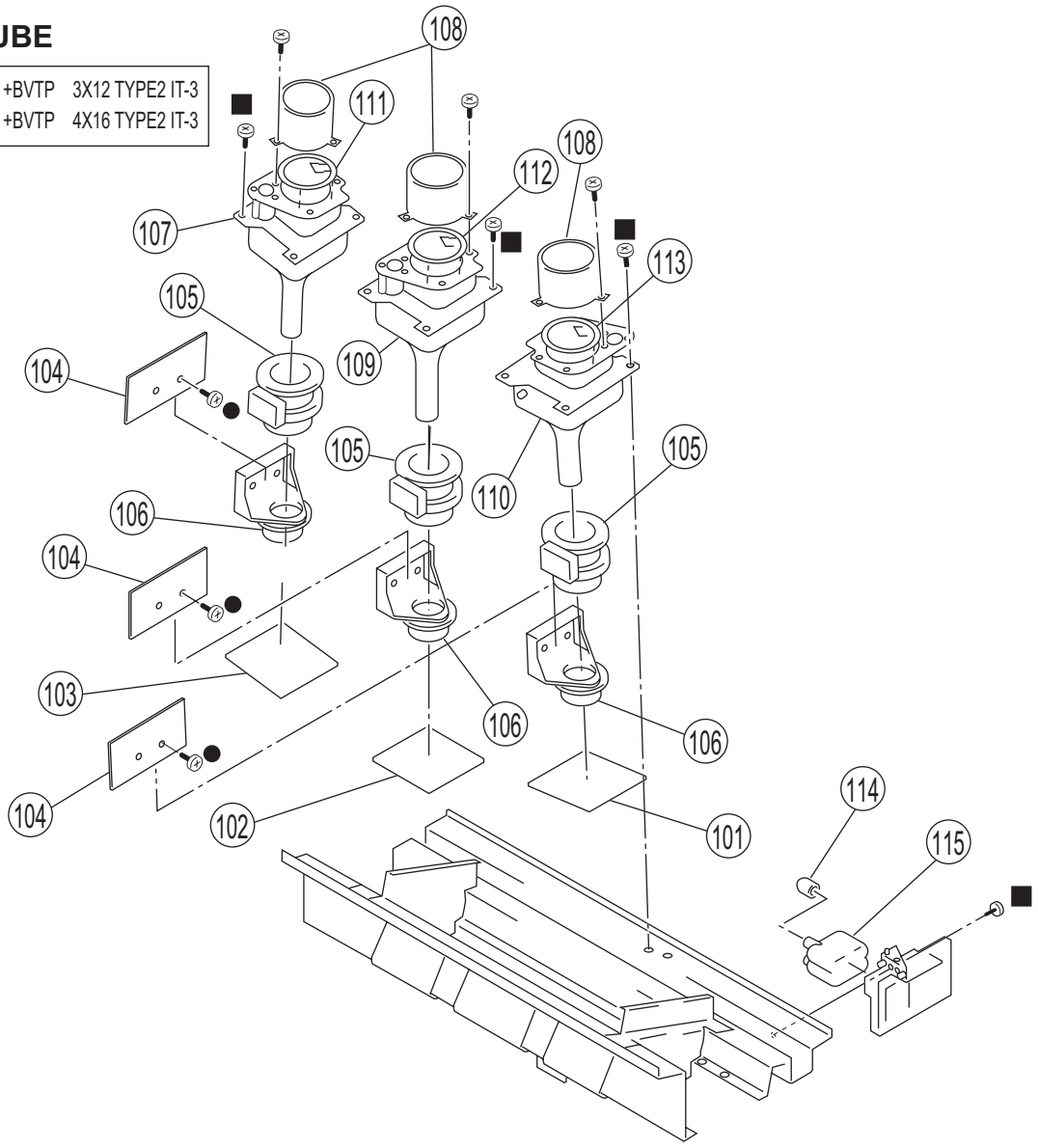
	REF. NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES
	67	3-710-578-01	COVER, VOLUME, 6 MOLD	
⚠	*68	A-1302-180-A	D BOARD, COMPLETE	
			The high voltage leads associated with the FBT on the D board are not included and must be ordered separately. (See 70-71) (SERIAL # 8,700,001 AND UP and # 9,700,001 AND UP)	
☛ ⚠	*68	A-1302-708-A	D BOARD, COMPLETE	
			The high voltage leads associated with the FBT on the D board are not included and must be ordered separately. (See 70-71) (SERIAL # 8,000,001 TO 8,099,999 and # 9,000,001 TO 9,099,999)	
⚠	69	1-453-285-51	FBT ASSY, NX-4006//X4P4	(70-71)
⚠	70	1-779-095-51	LEAD ASSY, HIGH-VOLTAGE	
⚠	71	1-900-260-40	CONNECTOR ASSY, MV	
⚠	72	1-790-001-22	CORD, AC POWER (WITH CONNECTOR	
⚠	* 73	A-1302-383-A	G BOARD, COMPLETE	
	74	1-500-021-11	CLAMP, SLEEVE FERRITE	
	75	1-500-082-11	CLAMP, SLEEVE FERRITE	
	76	1-469-241-11	CORE, FERRITE (RFC-8 BK)	
	77	1-500-603-11	CLAMP, FERRITE	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-3. PICTURE TUBE

● 7-685-648-79	SCREW +BVTP	3X12 TYPE2 IT-3
■ 7-685-663-71	SCREW +BVTP	4X16 TYPE2 IT-3



	REF. NO.	PART NO.	DESCRIPTION	ASSEMBLY INCLUDES
*	101	A-1302-183-A	CB BOARD, COMPLETE	
*	102	A-1302-184-A	CG BOARD, COMPLETE	
*	103	A-1302-182-A	CR BOARD, COMPLETE	
*	104	A-1405-146-A	V BOARD, MOUNTED	
⚠	105	1-451-537-13	DEFLECTION YOKE	
		(SERIAL # 8,700,001 AND UP and # 9,700,001 AND UP)		
⚠	105	1-451-536-41	DEFLECTION YOKE	
		(SERIAL # 8,000,001 TO 8,099,999 and # 9,000,001 TO 9,099,999)		
⚠	106	1-451-535-12	COIL ASSY, VM	
		(SERIAL # 8,700,001 AND UP and # 9,700,001 AND UP)		
⚠	106	1-452-790-33	NECK ASSEMBLY	
		(SERIAL # 8,000,001 TO 8,099,999 and # 9,000,001 TO 9,099,999)		
⚠	107	A-1604-504-A	COUPLER (R) ASSY, CRT	
		(SERIAL # 8,700,001 AND UP and # 9,700,001 AND UP)		
⚠	107	8-735-184-05	CRT 07MRC21(R)	
		(SERIAL # 8,000,001 TO 8,099,999 and # 9,000,001 TO 9,099,999)		
	108	4-083-751-01	LENS (DELTA 250)	
⚠	109	A-1604-483-A	COUPLER (G) ASSY, CRT	
		(SERIAL # 8,700,001 AND UP and # 9,700,001 AND UP)		
⚠	109	8-735-182-05	CRT 07MRC21(G)	
		(SERIAL # 8,000,001 TO 8,099,999 and # 9,000,001 TO 9,099,999)		
⚠	110	A-1604-506-A	COUPLER (B) ASSY, CRT	
		(SERIAL # 8,700,001 AND UP and # 9,700,001 AND UP)		
⚠	110	8-735-183-05	CRT 07MRC21(B)	
		(SERIAL # 8,000,001 TO 8,099,999 and # 9,000,001 TO 9,099,999)		
	111	4-092-690-01	SHADE (R)	
	112	4-092-691-01	SHADE (G)	
	113	4-093-242-01	SHADE (B)	
	114	4-373-137-01	CAP (Z), RUBBER	
⚠	115	8-598-955-32	BLOCK ASSY, HV HVB-1031	

SECTION 7: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: ⋈ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

RESISTORS
- **All resistors are in ohms**
- **F : nonflammable**
- **All variable and adjustable resistors have characteristic curve B, unless otherwise noted.**

CR

When ordering parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	VALUES		
CR					
*	A-1302-810-A	CR BOARD, COMPLETE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
*	7-651-000-50	GREASE,SILICON (G-746) 200G			
		CAPACITOR			
C7101	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7102	1-101-003-00	CERAMIC	0.0047µF		50V
C7103	1-104-570-11	CERAMIC	0.001µF	10%	2KV
C7104	1-107-662-11	ELECT	22µF	20%	350V
C7105	1-162-918-11	CERAMIC CHIP	18pF	5%	50V
C7106	1-126-768-11	ELECT	2200µF	20%	16V
C7107	1-161-830-00	CERAMIC	0.0047µF		500V
C7108	1-101-003-00	CERAMIC	0.0047µF		50V
C7109	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7110	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7111	1-126-933-11	ELECT	100µF	20%	16V
C7112	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7114	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C7117	1-164-096-11	CERAMIC	0.01µF		50V
		CONNECTOR			
* CN7102	1-564-509-11	PLUG, CONNECTOR 6P			
* CN7103	1-564-510-11	PLUG, CONNECTOR 7P			
CN7104	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7105	1-695-915-11	TAB (CONTACT)			
CN7107	1-695-915-11	TAB (CONTACT)			
⚠ CN7108	1-251-182-11	SOCKET, CRT			
		DIODE			
D7101	8-719-404-50	DIODE	MA111-TX		
D7102	8-719-901-83	DIODE	1SS83		
D7103	8-719-901-83	DIODE	1SS83		

REF.NO.	PART NO.	DESCRIPTION	VALUES		
		IC			
IC7101	8-759-680-01	IC	TDA6120Q/N2/S1		
		JUMPER WIRE			
JW7104	1-216-864-11	SHORT CHIP			
		COIL			
L7101	1-469-555-21	INDUCTOR	10µH		
L7102	1-414-855-31	INDUCTOR	1µH		
L7103	1-414-855-31	INDUCTOR	1µH		
		TRANSISTOR			
Q7101	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q7102	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q7103	8-729-048-50	TRANSISTOR	2SK3018-T106		
		RESISTOR			
R7101	1-260-132-11	CARBON	560K	5%	1/2W
R7102	1-216-813-11	METAL CHIP	220	5%	1/10W
R7103	1-218-693-11	METAL CHIP	1.1K	0.50%	1/10W
R7104	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R7105	1-219-743-11	METAL	100	5%	1/2W
R7106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R7107	1-260-133-11	CARBON	680K	5%	1/2W
R7108	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R7109	1-216-815-11	METAL CHIP	330	5%	1/10W
R7110	1-218-703-11	METAL CHIP	3K	0.50%	1/10W
R7111	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R7112	1-218-746-11	METAL CHIP	180K	0.50%	1/10W
R7113	1-218-746-11	METAL CHIP	180K	0.50%	1/10W
R7114	1-215-925-11	METAL OXIDE	22K	5%	3W
R7116	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R7118	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R7119	1-260-320-11	CARBON	220	5%	1/2W
R7120	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

CR CB

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R7121	1-249-425-11	CARBON	4.7K	5%	1/4W
R7122	1-260-087-11	CARBON	100	5%	1/2W
R7123	1-260-328-11	CARBON	1K	5%	1/2W
	SPARK GAP				
SG7101	1-519-422-11	GAP, SPARK			
SG7102	1-517-729-31	GAP, SPARK			
SG7103	1-519-421-11	GAP, DISCHARGE			
	CB				
*	**A-1302-811-A**	**CB BOARD, COMPLETE**			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
*	7-651-000-50	GREASE,SILICON (G-746) 200G			
	CAPACITOR				
C7301	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7302	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C7303	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C7304	1-101-003-00	CERAMIC	0.0047µF		50V
C7305	1-104-570-11	CERAMIC	0.001µF	10%	2KV
C7306	1-126-768-11	ELECT	2200µF	20%	16V
C7307	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7308	1-107-662-11	ELECT	22µF	20%	350V
C7309	1-101-003-00	CERAMIC	0.0047µF		50V
C7310	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7311	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7312	1-126-933-11	ELECT	100µF	20%	16V
C7313	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7314	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7315	1-161-830-00	CERAMIC	0.0047µF		500V
C7317	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C7320	1-164-096-11	CERAMIC	0.01µF		50V
	CONNECTOR				
* CN7302	1-564-509-11	PLUG, CONNECTOR	6P		
* CN7303	1-564-510-11	PLUG, CONNECTOR	7P		
* CN7304	1-564-510-11	PLUG, CONNECTOR	7P		
CN7305	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7307	1-695-915-11	TAB (CONTACT)			
CN7308	1-695-915-11	TAB (CONTACT)			
⚠ CN7309	1-251-182-11	SOCKET, CRT			
	DIODE				
D7301	8-719-404-50	DIODE	MA111-TX		
D7302	8-719-404-50	DIODE	MA111-TX		
D7303	8-719-901-83	DIODE	1SS83		
D7304	8-719-901-83	DIODE	1SS83		
	IC				
IC7301	8-759-680-01	IC	TDA6120Q/N2/S1		
	JUMPER WIRE				
JW7302	1-216-864-11	SHORT CHIP			
JW7304	1-216-864-11	SHORT CHIP			
JW7305	1-216-864-11	SHORT CHIP			
	COIL				
L7301	1-469-555-21	INDUCTOR	10µH		
L7302	1-414-855-31	INDUCTOR	1µH		
L7303	1-414-855-31	INDUCTOR	1µH		
	TRANSISTOR				
Q7301	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q7302	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q7303	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q7304	8-729-048-50	TRANSISTOR	2SK3018-T106		
	RESISTOR				
R7301	1-249-393-11	CARBON	10	5%	1/4W
R7302	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R7303	1-216-813-11	METAL CHIP	220	5%	1/10W
R7304	1-260-132-11	CARBON	560K	5%	1/2W
R7305	1-216-801-11	METAL CHIP	22	5%	1/10W
R7306	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R7307	1-219-743-11	METAL	100	5%	1/2W
R7308	1-216-809-11	METAL CHIP	100	5%	1/10W
R7309	1-216-864-11	SHORT CHIP			
R7310	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R7311	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R7312	1-260-133-11	CARBON	680K	5%	1/2W
R7313	1-216-818-11	METAL CHIP	560	5%	1/10W
R7314	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R7315	1-218-690-11	METAL CHIP	820	0.50%	1/10W
R7316	1-218-693-11	METAL CHIP	1.1K	0.50%	1/10W
R7317	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R7318	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7319	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R7320	1-218-752-11	METAL CHIP	330K	0.50%	1/10W
R7321	1-218-746-11	METAL CHIP	180K	0.50%	1/10W
R7322	1-215-925-11	METAL OXIDE	22K	5%	3W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

CB CG

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R7323	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R7325	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R7326	1-260-320-11	CARBON	220	5%	1/2W
R7328	1-249-425-11	CARBON	4.7K	5%	1/4W
R7329	1-260-087-11	CARBON	100	5%	1/2W
R7330	1-260-328-11	CARBON	1K	5%	1/2W
	SPARK GAP				
SG7301	1-519-422-11	GAP, SPARK			
SG7302	1-517-729-31	GAP, SPARK			
SG7303	1-519-421-11	GAP, DISCHARGE			

CG

*	**A-1302-812-A**	**CG BOARD, COMPLETE**			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
*	7-651-000-50	GREASE,SILICON (G-746) 200G			
	CAPACITOR				
C7201	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7202	1-101-003-00	CERAMIC	0.0047µF		50V
C7203	1-104-570-11	CERAMIC	0.001µF	10%	2KV
C7204	1-107-662-11	ELECT	22µF	20%	350V
C7205	1-162-920-11	CERAMIC CHIP	27pF	5%	50V
C7206	1-101-003-00	CERAMIC	0.0047µF		50V
C7207	1-126-768-11	ELECT	2200µF	20%	16V
C7208	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7209	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7210	1-126-933-11	ELECT	100µF	20%	16V
C7211	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7212	1-161-830-00	CERAMIC	0.0047µF		500V
C7214	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C7217	1-164-096-11	CERAMIC	0.01µF		50V
	CONNECTOR				
* CN7202	1-564-509-11	PLUG, CONNECTOR 6P			
* CN7203	1-564-510-11	PLUG, CONNECTOR 7P			
* CN7204	1-564-510-11	PLUG, CONNECTOR 7P			
CN7205	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7206	1-695-915-11	TAB (CONTACT)			
CN7208	1-695-915-11	TAB (CONTACT)			
⚠ CN7209	1-251-182-11	SOCKET, CRT			
	DIODE				
D7201	8-719-404-50	DIODE	MA111-TX		
D7202	8-719-901-83	DIODE	1SS83		
D7203	8-719-901-83	DIODE	1SS83		

REF.NO.	PART NO.	DESCRIPTION	VALUES		
	IC				
IC7201	8-759-680-01	IC	TDA6120Q/N2/S1		
	JUMPER WIRE				
JW7214	1-216-864-11	SHORT CHIP			
	COIL				
L7201	1-469-555-21	INDUCTOR	10µH		
L7202	1-414-855-31	INDUCTOR	1µH		
L7203	1-414-855-31	INDUCTOR	1µH		
	TRANSISTOR				
Q7201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q7202	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q7203	8-729-048-50	TRANSISTOR	2SK3018-T106		
	RESISTOR				
R7201	1-216-813-11	METAL CHIP	220	5%	1/10W
R7202	1-218-693-11	METAL CHIP	1.1K	0.50%	1/10W
R7203	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R7204	1-260-132-11	CARBON	560K	5%	1/2W
R7205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R7206	1-219-743-11	METAL	100	5%	1/2W
R7207	1-218-690-11	METAL CHIP	820	0.50%	1/10W
R7208	1-260-133-11	CARBON	680K	5%	1/2W
R7209	1-216-815-11	METAL CHIP	330	5%	1/10W
R7210	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7211	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R7212	1-218-742-11	METAL CHIP	120K	0.50%	1/10W
R7213	1-218-742-11	METAL CHIP	120K	0.50%	1/10W
R7214	1-215-925-11	METAL OXIDE	22K	5%	3W
R7215	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R7216	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R7219	1-260-320-11	CARBON	220	5%	1/2W
R7220	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R7221	1-249-425-11	CARBON	4.7K	5%	1/4W
R7222	1-260-087-11	CARBON	100	5%	1/2W
R7223	1-260-328-11	CARBON	1K	5%	1/2W
	SPARK GAP				
SG7201	1-519-422-11	GAP, SPARK			
SG7202	1-517-729-31	GAP, SPARK			
SG7203	1-519-421-11	GAP, DISCHARGE			

V

REF.NO.	PART NO.	DESCRIPTION	VALUES		
V					
*	A-1405-146-A	V BOARD, MOUNTED			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
*	7-651-000-50	GREASE,SILICON (G-746) 200G			
		CAPACITOR			
C9002	1-104-999-11	MYLAR	0.1µF	5%	200V
C9003	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C9006	1-126-935-11	ELECT	470µF	20%	16V
C9007	1-126-933-11	ELECT	100µF	20%	16V
C9008	1-126-935-11	ELECT	470µF	20%	16V
C9009	1-126-933-11	ELECT	100µF	20%	16V
C9010	1-107-667-11	ELECT	2.2µF	20%	400V
C9011	1-107-364-11	MYLAR	0.01µF	10%	200V
C9012	1-107-364-11	MYLAR	0.01µF	10%	200V
C9013	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9014	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9015	1-126-935-11	ELECT	470µF	20%	16V
C9017	1-104-999-11	MYLAR	0.1µF	5%	200V
C9018	1-107-638-11	ELECT	33µF	20%	160V
C9019	1-126-935-11	ELECT	470µF	20%	16V
		CONNECTOR			
* CN9001	1-564-508-11	PLUG, CONNECTOR		5P	
* CN9002	1-770-723-11	CONNECTOR, BOARD TO BOARD		8P	
		DIODE			
D9001	8-719-988-61	DIODE	1SS355TE-17		
D9002	8-719-988-61	DIODE	1SS355TE-17		
D9003	8-719-988-61	DIODE	1SS355TE-17		
D9004	8-719-988-61	DIODE	1SS355TE-17		
D9005	8-719-510-02	DIODE	D1NS4		
D9006	8-719-110-56	DIODE	RD22ESB1		
D9007	8-719-110-56	DIODE	RD22ESB1		
		COIL			
L9001	1-412-525-31	INDUCTOR	10µH		
		TRANSISTOR			
Q9002	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q9003	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q9004	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q9005	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q9006	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q9007	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q9008	8-729-045-04	TRANSISTOR	2SC5511		
Q9009	8-729-045-05	TRANSISTOR	2SA2005		
		RESISTOR			
R9002	1-216-805-11	METAL CHIP	47	5%	1/10W
R9004	1-216-820-11	METAL CHIP	820	5%	1/10W
R9005	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9006	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9007	1-216-809-11	METAL CHIP	100	5%	1/10W
R9008	1-216-803-11	METAL CHIP	33	5%	1/10W
R9009	1-216-809-11	METAL CHIP	100	5%	1/10W
R9010	1-216-813-11	METAL CHIP	220	5%	1/10W
R9011	1-216-864-11	SHORT CHIP			
R9012	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R9013	1-216-805-11	METAL CHIP	47	5%	1/10W
R9014	1-216-805-11	METAL CHIP	47	5%	1/10W
R9015	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9016	1-249-414-11	CARBON	560	5%	1/4W
R9017	1-249-435-11	CARBON	33K	5%	1/4W
R9018	1-249-435-11	CARBON	33K	5%	1/4W
R9019	1-249-414-11	CARBON	560	5%	1/4W
R9020	1-216-799-11	METAL CHIP	15	5%	1/10W
R9021	1-216-799-11	METAL CHIP	15	5%	1/10W
R9022	1-249-421-11	CARBON	2.2K	5%	1/4W
R9023	1-249-421-11	CARBON	2.2K	5%	1/4W
R9024	1-249-405-11	CARBON	100	5%	1/4W
R9025	1-249-385-11	CARBON	2.2	5%	1/4W
R9027	1-249-385-11	CARBON	2.2	5%	1/4W
R9028	1-249-405-11	CARBON	100	5%	1/4W
R9029	1-215-913-11	METAL OXIDE	220	5%	3W
R9030	1-249-377-11	CARBON	0.47	5%	1/4W
R9031	1-249-385-11	CARBON	2.2	5%	1/4W
R9032	1-249-385-11	CARBON	2.2	5%	1/4W
R9033	1-249-436-11	CARBON	39K	5%	1/4W
R9034	1-249-436-11	CARBON	39K	5%	1/4W

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G

REF.NO.	PART NO.	DESCRIPTION	VALUES		
G					
⚠*	A-1302-383-A	G BOARD, COMPLETE			
*	4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
*	7-651-000-50	GREASE,SILICON (G-746) 200G			
		CAPACITOR			
C5001	1-164-645-11	CERAMIC	1000pF	10%	500V
C5002	1-164-645-11	CERAMIC	1000pF	10%	500V
C5006	1-104-665-11	ELECT	100µF	20%	25V
C5007	1-164-645-11	CERAMIC	1000pF	10%	500V
C5008	1-164-645-11	CERAMIC	1000pF	10%	500V
C5009	1-126-953-11	ELECT	2200µF	20%	35V
C5010	1-126-953-11	ELECT	2200µF	20%	35V
C5011	1-164-645-11	CERAMIC	1000pF	10%	500V
C5012	1-164-645-11	CERAMIC	1000pF	10%	500V
C5015	1-115-758-11	ELECT	470µF	20%	16V
C5016	1-126-942-61	ELECT	1000µF	20%	25V
C5017	1-126-942-61	ELECT	1000µF	20%	25V
C5018	1-126-952-11	ELECT	1000µF	20%	35V
C5019	1-126-952-11	ELECT	1000µF	20%	35V
C5020	1-110-626-11	ELECT	330µF	20%	160V
C5021	1-115-771-51	ELECT	0.0047F	20%	16V
C5022	1-126-947-11	ELECT	47µF	20%	35V
C5024	1-107-888-11	ELECT	47µF	20%	25V
C5025	1-126-947-11	ELECT	47µF	20%	35V
C5026	1-126-947-11	ELECT	47µF	20%	35V
C5027	1-126-951-11	ELECT	470µF	20%	35V
C5028	1-126-951-11	ELECT	470µF	20%	35V
C5029	1-107-639-11	ELECT	47µF	20%	160V
C5030	1-126-947-11	ELECT	47µF	20%	35V
C5031	1-126-768-11	ELECT	2200µF	20%	16V
C5038	1-126-947-11	ELECT	47µF	20%	35V
C5039	1-126-947-11	ELECT	47µF	20%	35V
C5040	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5041	1-126-767-11	ELECT	1000µF	20%	16V
C5042	1-126-963-11	ELECT	4.7µF	20%	50V
C5043	1-126-935-11	ELECT	470µF	20%	16V
C5047	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5049	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5050	1-128-554-11	ELECT	330µF	20%	63V
C5051	1-126-961-11	ELECT	2.2µF	20%	50V

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C5053	1-126-967-11	ELECT	47µF	20%	50V
C5054	1-126-955-11	ELECT	4700µF	20%	35V
C5055	1-126-933-11	ELECT	100µF	20%	16V
C6001	1-126-967-11	ELECT	47µF	20%	50V
C6002	1-104-666-11	ELECT	220µF	20%	25V
C6004	1-126-967-11	ELECT	47µF	20%	50V
C6008	1-117-228-11	MYLAR	2.2µF	10%	450V
⚠ C6012	1-119-894-51	CERAMIC	2200pF	20%	250V
⚠ C6013	1-119-894-51	CERAMIC	2200pF	20%	250V
⚠ C6014	1-104-708-11	MYLAR	0.47µF	20%	250V
C6015	1-161-964-91	CERAMIC	0.0047µF		250V
C6016	1-161-964-91	CERAMIC	0.0047µF		250V
C6017	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6018	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C6019	1-126-968-11	ELECT	100µF	20%	50V
C6020	1-126-963-11	ELECT	4.7µF	20%	50V
C6021	1-126-964-11	ELECT	10µF	20%	50V
C6022	1-161-964-91	CERAMIC	0.0047µF		250V
C6023	1-161-964-91	CERAMIC	0.0047µF		250V
C6025	1-136-479-11	FILM	0.001µF	5%	100V
C6029	1-136-165-00	FILM	0.1µF	5%	50V
C6030	1-126-947-11	ELECT	47µF	20%	35V
C6031	1-137-750-11	ELECT	1500µF	20%	250V
C6032	1-137-750-11	ELECT	1500µF	20%	250V
C6041	1-125-969-91	CERAMIC	680pF	10%	1KV
C6042	1-125-969-91	CERAMIC	680pF	10%	1KV
⚠ C6043	1-104-706-11	MYLAR	0.22µF	20%	250V
C6046	1-126-968-11	ELECT	100µF	20%	50V
C6047	1-165-954-11	FILM	56000pF	3%	800V
		CONNECTOR			
* CN5001	1-564-508-11	PLUG, CONNECTOR		5P	
* CN5002	1-564-507-11	PLUG, CONNECTOR		4P	
* CN5003	1-564-510-11	PLUG, CONNECTOR		7P	
* CN5004	1-766-177-11	PIN, CONNECTOR (PC BOARD)		9P	
CN5005	1-695-915-11	TAB (CONTACT)			
CN5006	1-695-915-11	TAB (CONTACT)			
CN5007	1-695-915-11	TAB (CONTACT)			
⚠* CN6005	1-580-843-11	PIN, CONNECTOR (POWER)			
		DIODE			
D5001	8-719-083-67	DIODE	UDZSTE-1720B		
D5002	8-719-060-89	DIODE	D4SBS6-F		
D5003	8-719-060-89	DIODE	D4SBS6-F		
D5004	8-719-083-45	DIODE	31DF4N-FC5		

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G

REF.NO.	PART NO.	DESCRIPTION	VALUES	
D5005	8-719-083-45	DIODE	31DF4N-FC5	
D5006	8-719-052-37	DIODE	F10P04Q	
D5007	8-719-988-61	DIODE	1SS355TE-17	
D5008	8-719-028-45	DIODE	D2L20U	
D5009	8-719-028-45	DIODE	D2L20U	
D5010	8-719-200-31	DIODE	21DQ05	
D5011	8-719-988-61	DIODE	1SS355TE-17	
D5012	8-719-056-93	DIODE	UDZ-TE-17-18B	
D5013	8-719-069-56	DIODE	UDZSTE-176.2B	
D5014	8-719-988-61	DIODE	1SS355TE-17	
D5015	8-719-988-61	DIODE	1SS355TE-17	
D5016	8-719-083-44	DIODE	FSQ05A04	
D5017	8-719-073-25	DIODE	S1VBA20	
D5018	8-719-056-84	DIODE	UDZ-TE-17-7.5B	
D5019	8-719-988-61	DIODE	1SS355TE-17	
D5020	8-719-988-61	DIODE	1SS355TE-17	
D5021	8-719-988-61	DIODE	1SS355TE-17	
D5022	8-719-988-61	DIODE	1SS355TE-17	
D5023	8-719-988-61	DIODE	1SS355TE-17	
D5024	8-719-988-61	DIODE	1SS355TE-17	
D5025	8-719-988-61	DIODE	1SS355TE-17	
D5026	8-719-988-61	DIODE	1SS355TE-17	
D5027	8-719-069-54	DIODE	UDZSTE-175.1B	
D5031	8-719-988-61	DIODE	1SS355TE-17	
D5033	8-719-988-61	DIODE	1SS355TE-17	
D5034	8-719-083-60	DIODE	UDZSTE-174.7B	
D6001	8-719-988-61	DIODE	1SS355TE-17	
D6002	8-719-948-45	DIODE	ERA22-08	
D6003	8-719-070-63	DIODE	PDZ10B-115	
D6004	8-719-988-61	DIODE	1SS355TE-17	
D6005	8-719-988-61	DIODE	1SS355TE-17	
D6006	8-719-063-70	DIODE	D1NL20U	
D6007	8-719-022-99	DIODE	D6SB60L	
D6009	8-719-083-60	DIODE	UDZSTE-174.7B	
D6011	8-719-988-61	DIODE	1SS355TE-17	
D6012	6-500-158-01	DIODE	10ERA60-TA2B5	
D6019	8-719-083-60	DIODE	UDZSTE-174.7B	
D6023	8-719-068-00	DIODE	ERC04-06SE	
D6024	8-719-068-00	DIODE	ERC04-06SE	
D6030	8-719-063-70	DIODE	D1NL20U	
	FUSE			
⚠ F6001	1-576-193-11	FUSE	6.3A	125V

REF.NO.	PART NO.	DESCRIPTION	VALUES	
	FERRITE BEAD			
FB5001	1-410-396-41	FERRITE	0.45µH	
FB5002	1-410-396-41	FERRITE	0.45µH	
FB5003	1-410-396-41	FERRITE	0.45µH	
FB5004	1-410-396-41	FERRITE	0.45µH	
FB5005	1-410-396-41	FERRITE	0.45µH	
FB5006	1-410-396-41	FERRITE	0.45µH	
FB6001	1-410-396-41	FERRITE	0.45µH	
FB6004	1-216-295-91	SHORT CHIP		
FB6005	1-216-295-91	SHORT CHIP		
FB6006	1-216-295-91	SHORT CHIP		
FB6007	1-216-295-91	SHORT CHIP		
FB6013	1-410-397-21	FERRITE	1.1µH	
FB6014	1-410-397-21	FERRITE	1.1µH	
FB6015	1-410-397-21	FERRITE	1.1µH	
FB6016	1-410-397-21	FERRITE	1.1µH	
	FUSE HOLDER			
⚠ FH6001	1-533-223-11	FUSE HOLDER	0A	0V
⚠ FH6002	1-533-223-11	FUSE HOLDER	0A	0V
	IC			
⚠ IC501	8-749-012-13	IC	DM-58	
IC5002	8-759-103-93	IC	UPC393C	
IC5003	8-759-701-84	IC	NJM7905FA	
IC5004	8-759-640-19	IC	PQ1CG2032FZ	
⚠ IC5005	8-759-198-31	IC	UPC1093J-1-T	
IC5006	8-759-471-81	IC	PQ05RD11	
IC6003	8-759-670-30	IC	MCZ3001D	
	CHIP CONDUCTOR			
JR5002	1-216-864-11	SHORT CHIP		
JR5003	1-216-295-91	SHORT CHIP		
	COIL			
L5001	1-412-523-41	INDUCTOR	6.8µH	
L5002	1-412-523-41	INDUCTOR	6.8µH	
L5003	1-412-529-11	INDUCTOR	22µH	
L5004	1-412-531-31	INDUCTOR	33µH	
L5005	1-412-527-11	INDUCTOR	15µH	
L5006	1-412-533-21	INDUCTOR	47µH	
L5007	1-412-533-21	INDUCTOR	47µH	
L5008	1-412-529-11	INDUCTOR	22µH	
L5009	1-412-529-11	INDUCTOR	22µH	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	L5010	1-412-521-31	INDUCTOR	4.7µH		
	L5011	1-412-521-31	INDUCTOR	4.7µH		
	L5012	1-406-663-21	INDUCTOR	47µH		
	L5013	1-412-525-31	INDUCTOR	10µH		
	L5014	1-406-663-21	INDUCTOR	47µH		
	L5015	1-424-862-11	INDUCTOR	33µH		
	L5016	1-406-663-21	INDUCTOR	47µH		
	L5017	1-412-537-31	INDUCTOR	100µH		
⚠	L6001	1-437-479-11	TRANSFORMER, LINE FILTER			
⚠	L6002	1-437-479-11	TRANSFORMER, LINE FILTER			
	L6003	1-424-862-11	INDUCTOR	33µH		
		PHOTO COUPLER				
⚠	PH6001	8-749-924-35	PHOTO COUPLER	ON3171-R		
⚠	PH6002	8-749-924-35	PHOTO COUPLER	ON3171-R		
		IC LINK				
⚠	PS5001	1-533-597-31	IC LINK	5A	90V	
⚠	PS5002	1-533-597-31	IC LINK	5A	90V	
		TRANSISTOR				
	Q5001	8-729-050-50	TRANSISTOR	2SD1782K-T146-R		
	Q5002	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
	Q5003	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
	Q5004	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
	Q5005	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
	Q5006	8-729-901-87	TRANSISTOR	2SC2411K-CQ		
	Q5007	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
	Q6005	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31		
	Q6006	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31		
		RESISTOR				
	R5005	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
	R5006	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5007	1-249-377-11	CARBON	0.47	5%	1/4W
	R5010	1-247-903-00	CARBON	1M	5%	1/4W
	R5011	1-216-818-11	METAL CHIP	560	5%	1/10W
	R5012	1-216-361-00	METAL OXIDE	0.22	5%	2W
	R5013	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5014	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R5015	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
	R5016	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5017	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R5018	1-216-821-11	METAL CHIP	1K	5%	1/10W

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	R5019	1-216-857-11	METAL CHIP	1M	5%	1/10W
	R5020	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5021	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠	R5022	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
⚠	R5023	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
	R5024	1-218-682-11	METAL CHIP	390	0.50%	1/10W
	R5025	1-218-697-11	METAL CHIP	1.6K	0.50%	1/10W
	R5026	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5027	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5028	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5029	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R5030	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R5032	1-249-415-11	CARBON	680	5%	1/4W
	R5034	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5035	1-216-819-11	METAL CHIP	680	5%	1/10W
	R5036	1-216-819-11	METAL CHIP	680	5%	1/10W
	R5037	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5038	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5039	1-216-864-11	SHORT CHIP			
	R5040	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5041	1-215-866-11	METAL OXIDE	330	5%	1W
	R5042	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5043	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5044	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R5045	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
	R5047	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R5048	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R6002	1-240-251-11	CEMENTED	6.8	5%	10W
	R6003	1-260-328-11	CARBON	1K	5%	1/2W
	R6004	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R6006	1-216-430-11	METAL OXIDE	390	5%	1W
	R6007	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
	R6008	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠	R6015	1-219-776-11	CARBON	2.2M	10%	1/2W
	R6036	1-218-715-11	METAL CHIP	9.1K	0.50%	1/10W
	R6037	1-215-481-00	METAL	330K	1%	1/4W
	R6038	1-215-481-00	METAL	330K	1%	1/4W
	R6039	1-216-851-11	METAL CHIP	330K	5%	1/10W
	R6040	1-215-481-00	METAL	330K	1%	1/4W
	R6041	1-218-668-11	METAL CHIP	100	0.50%	1/10W
	R6042	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
	R6045	1-218-675-11	METAL CHIP	200	0.50%	1/10W
	R6046	1-216-813-11	METAL CHIP	220	5%	1/10W
	R6047	1-216-813-11	METAL CHIP	220	5%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R6050	1-249-417-11	CARBON	1K	5%	1/4W
R6054	1-249-393-11	CARBON	10	5%	1/4W
R6056	1-260-131-11	CARBON	470K	5%	1/2W
R6057	1-260-131-11	CARBON	470K	5%	1/2W
R6058	1-249-393-11	CARBON	10	5%	1/4W
R6062	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6064	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6076	1-243-979-71	METAL OXIDE	0.1	5%	2W
R6080	1-243-979-71	METAL OXIDE	0.1	5%	2W
R6081	1-249-393-11	CARBON	10	5%	1/4W
	RELAY				
⚠ RY6002	1-755-395-11	RELAY (AC POWER)			
⚠ RY6003	1-755-395-11	RELAY (AC POWER)			
	TRANSFORMER				
⚠ T6001	1-437-436-11	CONVERTER TRANSFORMER (PIT)			
T6004	1-435-675-11	TRANSFORMER, STANDBY			
	THERMISTOR				
TH6002	1-804-475-21	POSISTOR			
	VARISTOR				
VD6001	1-801-073-31	VARISTOR	ERZV14D471		

UD

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

*	**A-1300-324-A**	**UD BOARD, COMPLETE**			
	CAPACITOR				
C7001	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7002	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C7004	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7005	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7006	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7007	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C7008	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7010	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7011	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7012	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7013	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7014	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7015	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7016	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7017	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7018	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7019	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7020	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C7021	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7022	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C7023	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7024	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7026	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7027	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7028	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7029	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7030	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7031	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7032	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C7033	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7034	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7035	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7036	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7037	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7038	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7039	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7040	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C7041	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7042	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7043	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7045	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7046	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7047	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7048	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7049	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7050	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7051	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7052	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7053	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7056	1-126-395-11	ELECT CHIP	22µF	20%	16V
C7057	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C7058	1-164-156-11	CERAMIC CHIP	0.1µF		25V

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	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	C7059	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7060	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7061	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7064	1-126-395-11	ELECT CHIP	22µF	20%	16V
	C7065	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C7066	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C7067	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C7068	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C7069	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C7070	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7071	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7078	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7079	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C7080	1-164-156-11	CERAMIC CHIP	0.1µF		25V
		CONNECTOR				
*	CN7001	1-816-228-21	CONNECTOR, DVI			
*	CN7002	1-564-526-11	PLUG, CONNECTOR	11P		
*	CN7004	1-564-519-11	PLUG, CONNECTOR	4P		
		DIODE				
	D7001	8-719-914-43	DIODE	DAN202K		
	D7002	8-719-069-55	DIODE	UDZSTE-175.6B		
	D7003	8-719-069-55	DIODE	UDZSTE-175.6B		
	D7004	8-719-069-55	DIODE	UDZSTE-175.6B		
	D7006	8-719-069-55	DIODE	UDZSTE-175.6B		
		FERRITE BEAD				
	FB7001	1-414-760-21	FERRITE	0µH		
	FB7002	1-414-760-21	FERRITE	0µH		
	FB7003	1-414-760-21	FERRITE	0µH		
	FB7004	1-414-760-21	FERRITE	0µH		
		FILTER				
	FL7001	1-400-087-21	FILTER, EMI REMOVAL (SMD)			
	FL7002	1-234-560-21	FILTER, LOW PASS			
	FL7003	1-234-559-21	FILTER, LOW PASS			
	FL7004	1-234-559-21	FILTER, LOW PASS			
		IC				
	IC7001	8-759-640-39	IC	BR24C02F-WE2		
	IC7002	8-749-015-18	IC	PQ07VZ012ZP		
	IC7003	8-749-015-18	IC	PQ07VZ012ZP		
	IC7004	6-702-080-01	IC	GM7030-H		
	IC7005	6-802-346-01	IC	ST72631K4M1/NNLTR		

REF.NO.	PART NO.	DESCRIPTION	VALUES		
IC7006	8-759-641-86	IC	BR24C16F-E2		
IC7007	6-702-170-01	IC	PACDN006S		
IC7008	6-702-170-01	IC	PACDN006S		
IC7009	6-702-170-01	IC	PACDN006S		
	COIL				
L7001	1-412-058-11	INDUCTOR	10µH		
L7002	1-412-058-11	INDUCTOR	10µH		
	RESISTOR				
R7003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7004	1-218-852-11	METAL CHIP	1.6K	0.50%	1/10W
R7007	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7012	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7013	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7015	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7016	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7021	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7024	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7029	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R7030	1-216-864-11	SHORT CHIP			
R7032	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7034	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7036	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7037	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7041	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7044	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7045	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7047	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7051	1-216-864-11	SHORT CHIP			
R7053	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7056	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7057	1-216-864-11	SHORT CHIP			
R7058	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7059	1-216-864-11	SHORT CHIP			
R7060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7061	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7062	1-216-864-11	SHORT CHIP			

UD A

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R7065	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7066	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R7067	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7068	1-216-801-11	METAL CHIP	22	5%	1/10W
R7069	1-216-801-11	METAL CHIP	22	5%	1/10W
R7071	1-216-803-11	METAL CHIP	33	5%	1/10W
R7072	1-216-803-11	METAL CHIP	33	5%	1/10W
R7075	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7080	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7087	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R7096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7097	1-216-809-11	METAL CHIP	100	5%	1/10W
R7098	1-216-809-11	METAL CHIP	100	5%	1/10W
R7099	1-216-809-11	METAL CHIP	100	5%	1/10W
R7101	1-216-864-11	SHORT CHIP			
R7106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7108	1-216-805-11	METAL CHIP	47	5%	1/10W
R7109	1-216-805-11	METAL CHIP	47	5%	1/10W
R7111	1-216-864-11	SHORT CHIP			
R7112	1-216-864-11	SHORT CHIP			
R7113	1-216-864-11	SHORT CHIP			
R7114	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7115	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7116	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7117	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R7119	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R7121	1-216-864-11	SHORT CHIP			
R7123	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7124	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R7125	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7126	1-216-864-11	SHORT CHIP			
	CRYSTAL				
X7001	1-795-568-21	VIBRATOR, CRYSTAL			
X7002	1-795-567-21	VIBRATOR, CRYSTAL			

A

*	**A-1302-177-A**	**A BOARD, COMPLETE**	
	CAPACITOR		
C1	1-126-933-11	ELECT	100µF 20% 16V
C2	1-104-665-11	ELECT	100µF 20% 25V
C3	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C4	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C5	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C6	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C7	1-126-933-11	ELECT	100µF 20% 16V
C8	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C9	1-115-416-11	CERAMIC CHIP	0.001µF 5% 25V
C10	1-162-974-11	CERAMIC CHIP	0.01µF 50V
C11	1-126-933-11	ELECT	100µF 20% 16V
C12	1-126-933-11	ELECT	100µF 20% 16V
C13	1-164-739-11	CERAMIC CHIP	560pF 5% 50V
C14	1-165-176-11	CERAMIC CHIP	0.047µF 10% 16V
C15	1-164-392-11	CERAMIC CHIP	390pF 5% 50V
C16	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
C17	1-115-414-11	CERAMIC CHIP	820pF 5% 25V
C18	1-162-919-11	CERAMIC CHIP	22pF 5% 50V
C19	1-162-919-11	CERAMIC CHIP	22pF 5% 50V
C20	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C21	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C22	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C23	1-162-974-11	CERAMIC CHIP	0.01µF 50V
C24	1-126-947-11	ELECT	47µF 20% 35V
C25	1-126-947-11	ELECT	47µF 20% 35V
C26	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C27	1-126-947-11	ELECT	47µF 20% 35V
C28	1-162-974-11	CERAMIC CHIP	0.01µF 50V
C29	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C30	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C31	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C32	1-126-964-11	ELECT	10µF 20% 50V
C34	1-162-974-11	CERAMIC CHIP	0.01µF 50V
C35	1-126-947-11	ELECT	47µF 20% 35V
C36	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C37	1-162-974-11	CERAMIC CHIP	0.01µF 50V
C38	1-126-934-11	ELECT	220µF 20% 16V
C39	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C40	1-162-974-11	CERAMIC CHIP	0.01µF 50V
C41	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C42	1-126-934-11	ELECT	220µF 20% 16V
C43	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C44	1-126-947-11	ELECT	47µF 20% 35V
C45	1-162-979-11	CERAMIC CHIP	0.0027µF 10% 50V
C46	1-162-974-11	CERAMIC CHIP	0.01µF 50V
C47	1-162-979-11	CERAMIC CHIP	0.0027µF 10% 50V

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REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
C49	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C102	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C51	1-126-947-11	ELECT	47µF	20%	35V	C103	1-126-964-11	ELECT	10µF	20%	50V
C52	1-162-974-11	CERAMIC CHIP	0.01µF		50V	C104	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C53	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C105	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C54	1-162-979-11	CERAMIC CHIP	0.0027µF	10%	50V	C106	1-126-933-11	ELECT	100µF	20%	16V
C55	1-162-979-11	CERAMIC CHIP	0.0027µF	10%	50V	C107	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C56	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C108	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C57	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C109	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C59	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C110	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C60	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C111	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C61	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C112	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C62	1-126-947-11	ELECT	47µF	20%	35V	C113	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C63	1-126-935-11	ELECT	470µF	20%	16V	C115	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C65	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C116	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C66	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C119	1-126-933-11	ELECT	100µF	20%	16V
C67	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C120	1-126-933-11	ELECT	100µF	20%	16V
C68	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C123	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C69	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C124	1-164-346-11	CERAMIC CHIP	1µF		16V
C70	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C125	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C73	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C128	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C74	1-126-964-11	ELECT	10µF	20%	50V	C129	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C75	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C130	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C76	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C131	1-126-961-11	ELECT	2.2µF	20%	50V
C77	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C132	1-126-935-11	ELECT	470µF	20%	16V
C78	1-104-665-11	ELECT	100µF	20%	25V	C133	1-126-964-11	ELECT	10µF	20%	50V
C79	1-126-933-11	ELECT	100µF	20%	16V	C134	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C80	1-126-967-11	ELECT	47µF	20%	50V	C135	1-126-964-11	ELECT	10µF	20%	50V
C81	1-104-665-11	ELECT	100µF	20%	25V	C136	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C82	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C137	1-126-964-11	ELECT	10µF	20%	50V
C83	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C138	1-126-964-11	ELECT	10µF	20%	50V
C84	1-126-933-11	ELECT	100µF	20%	16V	C139	1-126-964-11	ELECT	10µF	20%	50V
C86	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C140	1-126-933-11	ELECT	100µF	20%	16V
C87	1-126-960-11	ELECT	1µF	20%	50V	C141	1-126-933-11	ELECT	100µF	20%	16V
C88	1-126-933-11	ELECT	100µF	20%	16V	C142	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C90	1-126-964-11	ELECT	10µF	20%	50V	C143	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C92	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C144	1-126-964-11	ELECT	10µF	20%	50V
C93	1-126-964-11	ELECT	10µF	20%	50V	C145	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C94	1-164-346-11	CERAMIC CHIP	1µF		16V	C148	1-104-665-11	ELECT	100µF	20%	25V
C95	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C149	1-126-933-11	ELECT	100µF	20%	16V
C96	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C150	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C97	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C151	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C98	1-126-960-11	ELECT	1µF	20%	50V	C301	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C99	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V	C302	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C101	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	C303	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
C304	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C349	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C305	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C350	1-126-935-11	ELECT	470µF	20%	16V
C306	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C351	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C307	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C352	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C308	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C353	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C309	1-126-933-11	ELECT	100µF	20%	16V	C354	1-126-963-11	ELECT	4.7µF	20%	50V
C310	1-126-964-11	ELECT	10µF	20%	50V	C355	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C311	1-126-933-11	ELECT	100µF	20%	16V	C356	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C312	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C357	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C313	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C358	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C314	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C359	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C315	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C360	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C316	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C361	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C317	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C362	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C318	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C363	1-126-933-11	ELECT	100µF	20%	16V
C319	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C364	1-126-933-11	ELECT	100µF	20%	16V
C320	1-126-963-11	ELECT	4.7µF	20%	50V	C365	1-126-933-11	ELECT	100µF	20%	16V
C321	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C366	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C322	1-126-933-11	ELECT	100µF	20%	16V	C367	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C323	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C368	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C325	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C369	1-126-933-11	ELECT	100µF	20%	16V
C326	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C370	1-126-933-11	ELECT	100µF	20%	16V
C327	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C371	1-126-933-11	ELECT	100µF	20%	16V
C328	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C372	1-126-933-11	ELECT	100µF	20%	16V
C329	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C373	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C330	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C374	1-126-933-11	ELECT	100µF	20%	16V
C331	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C375	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C332	1-126-964-11	ELECT	10µF	20%	50V	C376	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C333	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C377	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C334	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C378	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C335	1-126-933-11	ELECT	100µF	20%	16V	C379	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C336	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C380	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C337	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C381	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C338	1-126-963-11	ELECT	4.7µF	20%	50V	C382	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C339	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C383	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C340	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C384	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C341	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C385	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C342	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C386	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C343	1-126-963-11	ELECT	4.7µF	20%	50V	C387	1-126-964-11	ELECT	10µF	20%	50V
C344	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C388	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C345	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C389	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C346	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C390	1-126-964-11	ELECT	10µF	20%	50V
C347	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C391	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C348	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C392	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
C393	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C394	1-126-933-11	ELECT	100µF	20%	16V
C395	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C396	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C397	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C398	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C399	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C400	1-126-933-11	ELECT	100µF	20%	16V
C401	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C402	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C404	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C405	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C406	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C407	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C408	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C410	1-126-934-11	ELECT	220µF	20%	16V
C413	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C414	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C415	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C417	1-126-933-11	ELECT	100µF	20%	16V
C418	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C423	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C426	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C427	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C431	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C435	1-126-933-11	ELECT	100µF	20%	16V
C438	1-126-933-11	ELECT	100µF	20%	16V
C439	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C440	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C442	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C443	1-126-933-11	ELECT	100µF	20%	16V
C444	1-110-563-11	CERAMIC CHIP	0.068µF	10%	16V
C449	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C455	1-130-495-00	MYLAR	0.1µF	5%	50V
C457	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C458	1-136-244-11	FILM	0.1µF	2.00%	50V
C460	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C461	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C463	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C464	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C466	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C467	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C468	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C470	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C472	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C476	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C477	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C478	1-216-864-11	SHORT CHIP			
C479	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C480	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C481	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C482	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C483	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C484	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C485	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C486	1-115-467-11	CERAMIC CHIP	0.22µF	10%	10V
C487	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C488	1-126-933-11	ELECT	100µF	20%	16V
C489	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C490	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C494	1-126-933-11	ELECT	100µF	20%	16V
C495	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C497	1-126-933-11	ELECT	100µF	20%	16V
C498	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C500	1-164-816-11	CERAMIC CHIP	220pF	2.00%	50V
C501	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C502	1-164-816-11	CERAMIC CHIP	220pF	2.00%	50V
C503	1-164-816-11	CERAMIC CHIP	220pF	2.00%	50V
C504	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C505	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C506	1-164-816-11	CERAMIC CHIP	220pF	2.00%	50V
C507	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C701	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C702	1-126-964-11	ELECT	10µF	20%	50V
C703	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C704	1-126-947-11	ELECT	47µF	20%	35V
C705	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C706	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C707	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C708	1-104-665-11	ELECT	100µF	20%	25V
C709	1-162-920-11	CERAMIC CHIP	27pF	5%	50V
C710	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C713	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C714	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C719	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C722	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
C728	1-126-933-11	ELECT	100µF	20%	16V
C730	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C731	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C732	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C733	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C739	1-126-963-11	ELECT	4.7µF	20%	50V
C740	1-126-963-11	ELECT	4.7µF	20%	50V
C741	1-126-963-11	ELECT	4.7µF	20%	50V
C744	1-126-935-11	ELECT	470µF	20%	16V
C745	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C746	1-126-947-11	ELECT	47µF	20%	35V
C747	1-126-947-11	ELECT	47µF	20%	35V
C749	1-126-947-11	ELECT	47µF	20%	35V
C751	1-126-943-11	ELECT	2200µF	20%	25V
C752	1-126-943-11	ELECT	2200µF	20%	25V
C755	1-126-947-11	ELECT	47µF	20%	35V
C757	1-130-495-00	MYLAR	0.1µF	5%	50V
C758	1-126-947-11	ELECT	47µF	20%	35V
C761	1-136-169-00	FILM	0.22µF	5%	50V
C762	1-104-665-11	ELECT	100µF	20%	25V
C763	1-136-153-00	FILM	0.01µF	5%	50V
C764	1-130-495-00	MYLAR	0.1µF	5%	50V
C765	1-136-153-00	FILM	0.01µF	5%	50V
C767	1-136-287-11	FILM	0.0047µF	5%	100V
C771	1-130-495-00	MYLAR	0.1µF	5%	50V
C772	1-130-495-00	MYLAR	0.1µF	5%	50V
C773	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C774	1-136-287-11	FILM	0.0047µF	5%	100V
C775	1-136-169-00	FILM	0.22µF	5%	50V
C776	1-136-287-11	FILM	0.0047µF	5%	100V
C780	1-104-665-11	ELECT	100µF	20%	25V
C784	1-137-367-11	MYLAR	0.0033µF	5%	50V
C785	1-137-367-11	MYLAR	0.0033µF	5%	50V
C786	1-136-159-00	FILM	0.033µF	5%	50V
C787	1-136-159-00	FILM	0.033µF	5%	50V
C788	1-137-365-11	MYLAR	0.0015µF	5%	50V
C790	1-137-365-11	MYLAR	0.0015µF	5%	50V
C791	1-136-169-00	FILM	0.22µF	5%	50V
C792	1-136-169-00	FILM	0.22µF	5%	50V
C793	1-128-934-91	CERAMIC CHIP	0.33µF	20%	10V
C794	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C795	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C796	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C797	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C798	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C799	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C800	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C801	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C802	1-126-935-11	ELECT	470µF	20%	16V
C803	1-126-933-11	ELECT	100µF	20%	16V
C804	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C805	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C806	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C807	1-126-933-11	ELECT	100µF	20%	16V
C808	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C809	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C810	1-126-947-11	ELECT	47µF	20%	35V
C811	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

CONNECTOR

*	CN1	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
*	CN2	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
*	CN3	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
*	CN4	1-564-510-11	PLUG, CONNECTOR	7P
	CN5	1-573-979-22	CONNECTOR, BOARD TO BOARD	11P
*	CN6	1-793-922-11	CONNECTOR, DIN (RECEPTACLE)	64P
*	CN7	1-564-508-11	PLUG, CONNECTOR	5P
	CN8	1-695-915-11	TAB (CONTACT)	
*	CN9	1-564-509-11	PLUG, CONNECTOR	6P
*	CN10	1-564-511-11	PLUG, CONNECTOR	8P
	CN11	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P
	CN12	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P
*	CN13	1-793-922-11	CONNECTOR, DIN (RECEPTACLE)	64P
*	CN14	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
	CN15	1-695-915-11	TAB (CONTACT)	
*	CN16	1-564-506-11	PLUG, CONNECTOR	3P
*	CN17	1-564-508-11	PLUG, CONNECTOR	5P
*	CN18	1-564-508-11	PLUG, CONNECTOR	5P
*	CN19	1-564-508-11	PLUG, CONNECTOR	5P
	CN21	1-695-915-11	TAB (CONTACT)	
	CN22	1-695-915-11	TAB (CONTACT)	
*	CN23	1-564-507-11	PLUG, CONNECTOR	4P
*	CN24	1-564-510-11	PLUG, CONNECTOR	7P
*	CN701	1-564-507-11	PLUG, CONNECTOR	4P
*	CN702	1-564-509-11	PLUG, CONNECTOR	6P
*	CN703	1-564-509-11	PLUG, CONNECTOR	6P
*	CN704	1-564-509-11	PLUG, CONNECTOR	6P
*	CN705	1-564-507-11	PLUG, CONNECTOR	4P
*	CN706	1-564-507-11	PLUG, CONNECTOR	4P

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REF.NO.	PART NO.	DESCRIPTION	VALUES
	DIODE		
D1	8-719-404-50	DIODE	MA111-TX
D5	8-719-083-87	DIODE	UDZS-TE17-33B
D7	8-719-069-55	DIODE	UDZSTE-175.6B
D307	8-719-978-33	DIODE	DTZ-TT11-6.8B
D312	8-719-069-55	DIODE	UDZSTE-175.6B
D317	8-719-404-50	DIODE	MA111-TX
D318	8-719-404-50	DIODE	MA111-TX
D319	8-719-404-50	DIODE	MA111-TX
D321	8-719-404-50	DIODE	MA111-TX
D701	8-719-404-50	DIODE	MA111-TX
D702	8-719-404-50	DIODE	MA111-TX
D703	8-719-083-57	DIODE	UDZSTE-173.6B
D704	8-719-082-05	DIODE	M1MA142WKT1
D705	8-719-083-87	DIODE	UDZS-TE17-33B
D706	8-719-083-87	DIODE	UDZS-TE17-33B
D708	8-719-404-50	DIODE	MA111-TX
D709	8-719-404-50	DIODE	MA111-TX
D710	8-719-082-05	DIODE	M1MA142WKT1
D711	8-719-082-05	DIODE	M1MA142WKT1
D712	8-719-082-05	DIODE	M1MA142WKT1
D713	8-719-082-05	DIODE	M1MA142WKT1
D714	8-719-404-50	DIODE	MA111-TX
D715	8-719-404-50	DIODE	MA111-TX
D716	8-719-404-50	DIODE	MA111-TX
D718	8-719-404-50	DIODE	MA111-TX
D719	8-719-404-50	DIODE	MA111-TX
D720	8-719-920-67	DIODE	ERC91-02
D721	8-719-920-67	DIODE	ERC91-02
D723	8-719-083-85	DIODE	UDZS-TE17-22B
D724	8-719-083-85	DIODE	UDZS-TE17-22B
D725	8-719-083-85	DIODE	UDZS-TE17-22B
D726	8-719-083-85	DIODE	UDZS-TE17-22B
D729	8-719-404-50	DIODE	MA111-TX
	FERRITE BEAD		
FB2	1-414-445-11	FERRITE	0µH
FB3	1-414-445-11	FERRITE	0µH
FB4	1-414-445-11	FERRITE	0µH
FB5	1-216-295-91	SHORT CHIP	
FB6	1-414-445-11	FERRITE	0µH

REF.NO.	PART NO.	DESCRIPTION	VALUES
	FILTER		
FL4	1-239-848-21	FILTER, LOW PASS	
FL5	1-239-848-21	FILTER, LOW PASS	
FL6	1-239-848-21	FILTER, LOW PASS	
FL7	1-239-848-21	FILTER, LOW PASS	
	IC		
IC1	8-759-647-10	IC	UPC2933HF
IC2	8-759-653-07	IC	PQ09RD21
IC3	8-759-830-08	IC	NJM2068V-TE2
IC4	8-759-569-92	IC	NJM2370U09-TE2
IC5	8-759-100-96	IC	UPC4558G2
IC6	6-700-960-01	IC	UPD64083GF-3BA
IC7	8-759-100-96	IC	UPC4558G2
IC8	8-759-647-10	IC	UPC2933HF
IC9	8-759-701-79	IC	NJM7812FA
IC10	8-759-100-96	IC	UPC4558G2
IC11	8-759-100-96	IC	UPC4558G2
IC12	6-700-898-01	IC	PQ05RD21
IC13	8-759-647-11	IC	UPC2905HF
IC14	6-700-399-01	IC	UPC2925T-E1
IC301	8-752-102-21	IC	CXA2103AQ
IC302	8-752-916-40	IC	CXP85840A-039Q
IC303	8-752-102-21	IC	CXA2103AQ
IC304	8-752-916-40	IC	CXP85840A-039Q
IC305	8-759-595-97	IC	SN74LV4053ANSR
IC306	8-752-103-44	IC	CXA2171Q
IC307	8-759-595-97	IC	SN74LV4053ANSR
IC309	8-752-100-25	IC	CXA2150AQ
IC310	8-759-349-11	IC	PST9145NL
IC311	8-759-700-07	IC	NJM2903M
IC312	8-759-082-58	IC	TC7W08FU
IC701	8-759-349-11	IC	PST9145NL
IC702	6-700-149-01	IC	M24C04-MN6T(A)
IC703	8-759-575-72	IC	M24C08-WMN6T
IC704	6-803-474-01	IC	M306V2ME-212FP
IC707	8-759-100-96	IC	UPC4558G2
IC708	8-759-190-89	IC	TDA7265
IC711	6-704-236-01	IC	NJW1148
	CHIP CONDUCTOR		
JR2	1-216-864-11	SHORT CHIP	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF.NO.	PART NO.	DESCRIPTION	VALUES
	COIL		
L1	1-412-948-11	INDUCTOR	5.6µH
L2	1-469-555-21	INDUCTOR	10µH
L3	1-469-555-21	INDUCTOR	10µH
L4	1-469-555-21	INDUCTOR	10µH
L5	1-469-555-21	INDUCTOR	10µH
L6	1-469-555-21	INDUCTOR	10µH
L7	1-414-856-11	INDUCTOR	10µH
L8	1-414-856-11	INDUCTOR	10µH
L9	1-414-856-11	INDUCTOR	10µH
L10	1-412-537-31	INDUCTOR	100µH
L11	1-414-856-11	INDUCTOR	10µH
L12	1-414-856-11	INDUCTOR	10µH
L13	1-414-856-11	INDUCTOR	10µH
L301	1-469-555-21	INDUCTOR	10µH
L302	1-469-555-21	INDUCTOR	10µH
L303	1-469-555-21	INDUCTOR	10µH
L304	1-469-555-21	INDUCTOR	10µH
L305	1-469-555-21	INDUCTOR	10µH
L306	1-414-193-41	INDUCTOR	220µH
L307	1-469-555-21	INDUCTOR	10µH
L308	1-414-856-11	INDUCTOR	10µH
L309	1-469-555-21	INDUCTOR	10µH
L310	1-469-555-21	INDUCTOR	10µH
L311	1-469-555-21	INDUCTOR	10µH
L312	1-469-555-21	INDUCTOR	10µH
L313	1-414-856-11	INDUCTOR	10µH
L315	1-469-555-21	INDUCTOR	10µH
L316	1-414-856-11	INDUCTOR	10µH
L317	1-414-856-11	INDUCTOR	10µH
L318	1-469-555-21	INDUCTOR	10µH
L321	1-414-856-11	INDUCTOR	10µH
L701	1-414-179-21	INDUCTOR	2.2µH
L702	1-412-911-11	FERRITE	0µH
	IC LINK		
⚠ PS1	1-532-679-00	IC LINK	0.6A 50V
⚠ PS2	1-532-685-00	IC LINK	0.8A 50V
⚠ PS3	1-532-679-00	IC LINK	0.6A 50V
⚠ PS701	1-576-336-21	IC LINK	2A 50V
⚠ PS702	1-576-336-21	IC LINK	2A 50V

REF.NO.	PART NO.	DESCRIPTION	VALUES
	TRANSISTOR		
Q1	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3	8-729-422-27	TRANSISTOR	2SD601A-Q
Q4	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5	8-729-422-27	TRANSISTOR	2SD601A-Q
Q6	8-729-422-27	TRANSISTOR	2SD601A-Q
Q7	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q8	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q11	8-729-422-27	TRANSISTOR	2SD601A-Q
Q12	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q13	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q14	8-729-422-27	TRANSISTOR	2SD601A-Q
Q15	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q16	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q17	8-729-422-27	TRANSISTOR	2SD601A-Q
Q18	8-729-422-27	TRANSISTOR	2SD601A-Q
Q19	8-729-422-27	TRANSISTOR	2SD601A-Q
Q20	8-729-422-27	TRANSISTOR	2SD601A-Q
Q21	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q22	8-729-422-27	TRANSISTOR	2SD601A-Q
Q23	8-729-422-27	TRANSISTOR	2SD601A-Q
Q24	8-729-422-27	TRANSISTOR	2SD601A-Q
Q25	8-729-422-27	TRANSISTOR	2SD601A-Q
Q26	8-729-422-27	TRANSISTOR	2SD601A-Q
Q27	8-729-422-27	TRANSISTOR	2SD601A-Q
Q28	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q30	1-801-806-11	TRANSISTOR	DTC144EKA
Q301	8-729-422-27	TRANSISTOR	2SD601A-Q
Q304	8-729-422-27	TRANSISTOR	2SD601A-Q
Q306	8-729-422-27	TRANSISTOR	2SD601A-Q
Q307	8-729-422-27	TRANSISTOR	2SD601A-Q
Q308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q309	8-729-422-27	TRANSISTOR	2SD601A-Q
Q310	8-729-422-27	TRANSISTOR	2SD601A-Q
Q311	8-729-422-27	TRANSISTOR	2SD601A-Q
Q312	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q313	8-729-422-27	TRANSISTOR	2SD601A-Q
Q314	8-729-422-27	TRANSISTOR	2SD601A-Q
Q315	8-729-422-27	TRANSISTOR	2SD601A-Q
Q316	8-729-422-27	TRANSISTOR	2SD601A-Q
Q317	8-729-422-27	TRANSISTOR	2SD601A-Q
Q318	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF.NO.	PART NO.	DESCRIPTION	VALUES
Q319	8-729-422-27	TRANSISTOR	2SD601A-Q
Q320	8-729-422-27	TRANSISTOR	2SD601A-Q
Q321	8-729-422-27	TRANSISTOR	2SD601A-Q
Q322	8-729-422-27	TRANSISTOR	2SD601A-Q
Q323	8-729-422-27	TRANSISTOR	2SD601A-Q
Q324	8-729-422-27	TRANSISTOR	2SD601A-Q
Q325	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q326	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q327	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q328	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q329	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q330	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q331	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q332	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q333	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q334	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q335	8-729-422-27	TRANSISTOR	2SD601A-Q
Q336	8-729-422-27	TRANSISTOR	2SD601A-Q
Q337	8-729-422-27	TRANSISTOR	2SD601A-Q
Q338	8-729-422-27	TRANSISTOR	2SD601A-Q
Q339	8-729-422-27	TRANSISTOR	2SD601A-Q
Q340	8-729-422-27	TRANSISTOR	2SD601A-Q
Q342	8-729-422-27	TRANSISTOR	2SD601A-Q
Q343	8-729-122-63	TRANSISTOR	2SA1226-E4
Q344	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q345	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q346	8-729-422-27	TRANSISTOR	2SD601A-Q
Q347	8-729-122-63	TRANSISTOR	2SA1226-E4
Q348	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q349	8-729-422-27	TRANSISTOR	2SD601A-Q
Q350	8-729-422-27	TRANSISTOR	2SD601A-Q
Q351	8-729-122-63	TRANSISTOR	2SA1226-E4
Q352	8-729-422-27	TRANSISTOR	2SD601A-Q
Q353	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q354	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q355	8-729-422-27	TRANSISTOR	2SD601A-Q
Q356	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q357	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q358	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q359	8-729-422-27	TRANSISTOR	2SD601A-Q
Q360	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q361	8-729-422-27	TRANSISTOR	2SD601A-Q
Q362	8-729-422-27	TRANSISTOR	2SD601A-Q
Q363	8-729-422-27	TRANSISTOR	2SD601A-Q
Q367	8-729-122-63	TRANSISTOR	2SA1226-E4
Q368	8-729-422-27	TRANSISTOR	2SD601A-Q
Q369	1-801-806-11	TRANSISTOR	DTC144EKA
Q373	8-729-422-27	TRANSISTOR	2SD601A-Q
Q374	8-729-422-27	TRANSISTOR	2SD601A-Q
Q378	8-729-422-27	TRANSISTOR	2SD601A-Q
Q379	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q380	8-729-422-27	TRANSISTOR	2SD601A-Q
Q381	8-729-422-27	TRANSISTOR	2SD601A-Q
Q501	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q502	1-801-806-11	TRANSISTOR	DTC144EKA
Q701	8-729-422-27	TRANSISTOR	2SD601A-Q
Q702	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q703	8-729-422-27	TRANSISTOR	2SD601A-Q
Q704	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q705	8-729-422-27	TRANSISTOR	2SD601A-Q
Q706	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q707	1-801-806-11	TRANSISTOR	DTC144EKA
Q708	8-729-422-27	TRANSISTOR	2SD601A-Q
Q709	8-729-422-27	TRANSISTOR	2SD601A-Q
Q710	8-729-422-27	TRANSISTOR	2SD601A-Q
Q712	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q713	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q714	8-729-027-38	TRANSISTOR	DTA144EKA-T146
Q715	8-729-422-27	TRANSISTOR	2SD601A-Q
Q716	8-729-422-27	TRANSISTOR	2SD601A-Q
Q717	8-729-422-27	TRANSISTOR	2SD601A-Q
Q718	8-729-422-27	TRANSISTOR	2SD601A-Q
Q719	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q721	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q722	8-729-422-27	TRANSISTOR	2SD601A-Q
Q723	8-729-422-27	TRANSISTOR	2SD601A-Q
Q725	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX

RESISTOR

R1	1-216-464-11	METAL OXIDE	18K	5%	2W
R2	1-216-813-11	METAL CHIP	220	5%	1/10W
R3	1-216-813-11	METAL CHIP	220	5%	1/10W
R4	1-216-813-11	METAL CHIP	220	5%	1/10W
R5	1-216-813-11	METAL CHIP	220	5%	1/10W
R6	1-216-813-11	METAL CHIP	220	5%	1/10W
R7	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8	1-216-813-11	METAL CHIP	220	5%	1/10W
R9	1-216-813-11	METAL CHIP	220	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R10	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R11	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R12	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R13	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R14	1-216-845-11	METAL CHIP	100K	5%	1/10W
R16	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R17	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R18	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R19	1-216-816-11	METAL CHIP	390	5%	1/10W
R20	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R21	1-216-839-11	METAL CHIP	33K	5%	1/10W
R22	1-216-813-11	METAL CHIP	220	5%	1/10W
R23	1-216-864-11	SHORT CHIP			
R27	1-218-707-11	METAL CHIP	4.3K	0.50%	1/10W
R30	1-216-809-11	METAL CHIP	100	5%	1/10W
R31	1-216-809-11	METAL CHIP	100	5%	1/10W
R33	1-216-809-11	METAL CHIP	100	5%	1/10W
R37	1-216-853-11	METAL CHIP	470K	5%	1/10W
R39	1-216-855-11	METAL CHIP	680K	5%	1/10W
R42	1-216-855-11	METAL CHIP	680K	5%	1/10W
R43	1-216-853-11	METAL CHIP	470K	5%	1/10W
R44	1-249-377-11	CARBON	0.47	5%	1/4W
R46	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R48	1-216-809-11	METAL CHIP	100	5%	1/10W
R49	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R50	1-216-809-11	METAL CHIP	100	5%	1/10W
R51	1-216-833-11	METAL CHIP	10K	5%	1/10W
R52	1-216-833-11	METAL CHIP	10K	5%	1/10W
R53	1-216-817-11	METAL CHIP	470	5%	1/10W
R54	1-216-817-11	METAL CHIP	470	5%	1/10W
R55	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R56	1-216-805-11	METAL CHIP	47	5%	1/10W
R57	1-216-805-11	METAL CHIP	47	5%	1/10W
R59	1-216-821-11	METAL CHIP	1K	5%	1/10W
R60	1-216-833-11	METAL CHIP	10K	5%	1/10W
R61	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R62	1-216-821-11	METAL CHIP	1K	5%	1/10W
R63	1-216-809-11	METAL CHIP	100	5%	1/10W
R64	1-216-837-11	METAL CHIP	22K	5%	1/10W
R65	1-216-833-11	METAL CHIP	10K	5%	1/10W
R66	1-216-849-11	METAL CHIP	220K	5%	1/10W
R67	1-216-841-11	METAL CHIP	47K	5%	1/10W
R68	1-216-839-11	METAL CHIP	33K	5%	1/10W
R69	1-216-857-11	METAL CHIP	1M	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R70	1-216-845-11	METAL CHIP	100K	5%	1/10W
R71	1-216-813-11	METAL CHIP	220	5%	1/10W
R72	1-216-821-11	METAL CHIP	1K	5%	1/10W
R73	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R74	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R75	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R76	1-216-818-11	METAL CHIP	560	5%	1/10W
R77	1-216-821-11	METAL CHIP	1K	5%	1/10W
R78	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R79	1-216-818-11	METAL CHIP	560	5%	1/10W
R80	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R81	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R82	1-216-821-11	METAL CHIP	1K	5%	1/10W
R85	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R87	1-216-833-11	METAL CHIP	10K	5%	1/10W
R88	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R89	1-216-813-11	METAL CHIP	220	5%	1/10W
R90	1-216-864-11	SHORT CHIP			
R91	1-216-864-11	SHORT CHIP			
R92	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R93	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R95	1-216-818-11	METAL CHIP	560	5%	1/10W
R96	1-216-818-11	METAL CHIP	560	5%	1/10W
R99	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R100	1-216-833-11	METAL CHIP	10K	5%	1/10W
R102	1-216-821-11	METAL CHIP	1K	5%	1/10W
R103	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R104	1-216-821-11	METAL CHIP	1K	5%	1/10W
R105	1-216-821-11	METAL CHIP	1K	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R109	1-216-816-11	METAL CHIP	390	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-216-857-11	METAL CHIP	1M	5%	1/10W
R113	1-216-845-11	METAL CHIP	100K	5%	1/10W
R114	1-216-809-11	METAL CHIP	100	5%	1/10W
R115	1-216-820-11	METAL CHIP	820	5%	1/10W
R116	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R118	1-216-820-11	METAL CHIP	820	5%	1/10W
R119	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R120	1-216-834-11	METAL CHIP	12K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
R121	1-216-839-11	METAL CHIP	33K	5%	1/10W	R319	1-216-864-11	SHORT CHIP			
R122	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R123	1-216-833-11	METAL CHIP	10K	5%	1/10W	R321	1-216-821-11	METAL CHIP	1K	5%	1/10W
R124	1-216-834-11	METAL CHIP	12K	5%	1/10W	R322	1-216-809-11	METAL CHIP	100	5%	1/10W
R125	1-216-839-11	METAL CHIP	33K	5%	1/10W	R323	1-216-809-11	METAL CHIP	100	5%	1/10W
R126	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R324	1-216-809-11	METAL CHIP	100	5%	1/10W
R127	1-216-839-11	METAL CHIP	33K	5%	1/10W	R325	1-216-835-11	METAL CHIP	15K	5%	1/10W
R128	1-216-821-11	METAL CHIP	1K	5%	1/10W	R326	1-216-864-11	SHORT CHIP			
R129	1-216-805-11	METAL CHIP	47	5%	1/10W	R327	1-216-817-11	METAL CHIP	470	5%	1/10W
R130	1-216-821-11	METAL CHIP	1K	5%	1/10W	R329	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R131	1-216-837-11	METAL CHIP	22K	5%	1/10W	R330	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R133	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R331	1-216-833-11	METAL CHIP	10K	5%	1/10W
R134	1-218-683-11	METAL CHIP	430	0.50%	1/10W	R332	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R135	1-216-809-11	METAL CHIP	100	5%	1/10W	R333	1-216-809-11	METAL CHIP	100	5%	1/10W
R136	1-216-821-11	METAL CHIP	1K	5%	1/10W	R334	1-216-809-11	METAL CHIP	100	5%	1/10W
R137	1-216-833-11	METAL CHIP	10K	5%	1/10W	R335	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R138	1-216-833-11	METAL CHIP	10K	5%	1/10W	R336	1-216-809-11	METAL CHIP	100	5%	1/10W
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W	R337	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W	R338	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R141	1-216-809-11	METAL CHIP	100	5%	1/10W	R339	1-216-809-11	METAL CHIP	100	5%	1/10W
R142	1-216-843-11	METAL CHIP	68K	5%	1/10W	R340	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R143	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R341	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R144	1-216-843-11	METAL CHIP	68K	5%	1/10W	R342	1-216-841-11	METAL CHIP	47K	5%	1/10W
R145	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R343	1-216-809-11	METAL CHIP	100	5%	1/10W
R146	1-216-845-11	METAL CHIP	100K	5%	1/10W	R344	1-216-809-11	METAL CHIP	100	5%	1/10W
R147	1-216-833-11	METAL CHIP	10K	5%	1/10W	R345	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R148	1-216-397-11	METAL OXIDE	4.7	5%	3W	R346	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R151	1-216-833-11	METAL CHIP	10K	5%	1/10W	R347	1-216-817-11	METAL CHIP	470	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W	R348	1-216-841-11	METAL CHIP	47K	5%	1/10W
R153	1-216-833-11	METAL CHIP	10K	5%	1/10W	R349	1-216-813-11	METAL CHIP	220	5%	1/10W
R154	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R350	1-216-809-11	METAL CHIP	100	5%	1/10W
R155	1-216-864-11	SHORT CHIP				R351	1-216-813-11	METAL CHIP	220	5%	1/10W
R301	1-216-809-11	METAL CHIP	100	5%	1/10W	R352	1-216-813-11	METAL CHIP	220	5%	1/10W
R302	1-216-805-11	METAL CHIP	47	5%	1/10W	R353	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-833-11	METAL CHIP	10K	5%	1/10W	R354	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-833-11	METAL CHIP	10K	5%	1/10W	R355	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-835-11	METAL CHIP	15K	5%	1/10W	R356	1-216-841-11	METAL CHIP	47K	5%	1/10W
R308	1-216-821-11	METAL CHIP	1K	5%	1/10W	R357	1-216-837-11	METAL CHIP	22K	5%	1/10W
R309	1-216-813-11	METAL CHIP	220	5%	1/10W	R358	1-216-837-11	METAL CHIP	22K	5%	1/10W
R310	1-216-857-11	METAL CHIP	1M	5%	1/10W	R359	1-216-837-11	METAL CHIP	22K	5%	1/10W
R311	1-216-840-11	METAL CHIP	39K	5%	1/10W	R360	1-216-837-11	METAL CHIP	22K	5%	1/10W
R313	1-216-833-11	METAL CHIP	10K	5%	1/10W	R361	1-216-837-11	METAL CHIP	22K	5%	1/10W
R314	1-216-833-11	METAL CHIP	10K	5%	1/10W	R362	1-216-837-11	METAL CHIP	22K	5%	1/10W
R318	1-216-833-11	METAL CHIP	10K	5%	1/10W	R363	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
R364	1-216-809-11	METAL CHIP	100	5%	1/10W	R408	1-216-821-11	METAL CHIP	1K	5%	1/10W
R365	1-216-809-11	METAL CHIP	100	5%	1/10W	R409	1-216-821-11	METAL CHIP	1K	5%	1/10W
R366	1-216-841-11	METAL CHIP	47K	5%	1/10W	R410	1-218-673-11	METAL CHIP	160	0.50%	1/10W
R367	1-216-821-11	METAL CHIP	1K	5%	1/10W	R411	1-218-673-11	METAL CHIP	160	0.50%	1/10W
R368	1-216-821-11	METAL CHIP	1K	5%	1/10W	R412	1-216-813-11	METAL CHIP	220	5%	1/10W
R369	1-216-821-11	METAL CHIP	1K	5%	1/10W	R413	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R370	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R414	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R371	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R415	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R372	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R416	1-216-857-11	METAL CHIP	1M	5%	1/10W
R373	1-216-809-11	METAL CHIP	100	5%	1/10W	R417	1-216-809-11	METAL CHIP	100	5%	1/10W
R374	1-216-815-11	METAL CHIP	330	5%	1/10W	R418	1-216-809-11	METAL CHIP	100	5%	1/10W
R375	1-216-815-11	METAL CHIP	330	5%	1/10W	R419	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R376	1-216-815-11	METAL CHIP	330	5%	1/10W	R420	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W
R377	1-216-837-11	METAL CHIP	22K	5%	1/10W	R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R378	1-216-837-11	METAL CHIP	22K	5%	1/10W	R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R379	1-216-837-11	METAL CHIP	22K	5%	1/10W	R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R380	1-216-837-11	METAL CHIP	22K	5%	1/10W	R424	1-218-674-11	METAL CHIP	180	0.50%	1/10W
R381	1-216-837-11	METAL CHIP	22K	5%	1/10W	R425	1-218-674-11	METAL CHIP	180	0.50%	1/10W
R382	1-216-837-11	METAL CHIP	22K	5%	1/10W	R426	1-218-674-11	METAL CHIP	180	0.50%	1/10W
R383	1-216-809-11	METAL CHIP	100	5%	1/10W	R427	1-218-673-11	METAL CHIP	160	0.50%	1/10W
R384	1-216-809-11	METAL CHIP	100	5%	1/10W	R428	1-216-864-11	SHORT CHIP			
R385	1-216-821-11	METAL CHIP	1K	5%	1/10W	R429	1-216-850-11	METAL CHIP	270K	5%	1/10W
R386	1-216-809-11	METAL CHIP	100	5%	1/10W	R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R387	1-216-845-11	METAL CHIP	100K	5%	1/10W	R432	1-216-817-11	METAL CHIP	470	5%	1/10W
R388	1-216-837-11	METAL CHIP	22K	5%	1/10W	R433	1-216-817-11	METAL CHIP	470	5%	1/10W
R389	1-216-809-11	METAL CHIP	100	5%	1/10W	R434	1-216-809-11	METAL CHIP	100	5%	1/10W
R390	1-216-809-11	METAL CHIP	100	5%	1/10W	R435	1-216-817-11	METAL CHIP	470	5%	1/10W
R391	1-216-809-11	METAL CHIP	100	5%	1/10W	R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R392	1-216-809-11	METAL CHIP	100	5%	1/10W	R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R393	1-216-809-11	METAL CHIP	100	5%	1/10W	R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R394	1-216-809-11	METAL CHIP	100	5%	1/10W	R439	1-216-817-11	METAL CHIP	470	5%	1/10W
R395	1-216-821-11	METAL CHIP	1K	5%	1/10W	R440	1-216-813-11	METAL CHIP	220	5%	1/10W
R396	1-216-821-11	METAL CHIP	1K	5%	1/10W	R441	1-216-813-11	METAL CHIP	220	5%	1/10W
R397	1-216-821-11	METAL CHIP	1K	5%	1/10W	R442	1-216-813-11	METAL CHIP	220	5%	1/10W
R398	1-216-845-11	METAL CHIP	100K	5%	1/10W	R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R399	1-216-833-11	METAL CHIP	10K	5%	1/10W	R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R400	1-216-845-11	METAL CHIP	100K	5%	1/10W	R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W	R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-845-11	METAL CHIP	100K	5%	1/10W	R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-845-11	METAL CHIP	100K	5%	1/10W	R449	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-845-11	METAL CHIP	100K	5%	1/10W	R450	1-216-814-11	METAL CHIP	270	5%	1/10W
R405	1-216-845-11	METAL CHIP	100K	5%	1/10W	R451	1-216-814-11	METAL CHIP	270	5%	1/10W
R406	1-216-864-11	SHORT CHIP				R452	1-216-814-11	METAL CHIP	270	5%	1/10W
R407	1-216-833-11	METAL CHIP	10K	5%	1/10W	R456	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R457	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R458	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R459	1-216-815-11	METAL CHIP	330	5%	1/10W
R460	1-216-815-11	METAL CHIP	330	5%	1/10W
R461	1-216-815-11	METAL CHIP	330	5%	1/10W
R463	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R466	1-216-841-11	METAL CHIP	47K	5%	1/10W
R467	1-216-841-11	METAL CHIP	47K	5%	1/10W
R471	1-216-821-11	METAL CHIP	1K	5%	1/10W
R472	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-833-11	METAL CHIP	10K	5%	1/10W
R476	1-216-808-11	METAL CHIP	82	5%	1/10W
R477	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R480	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R481	1-216-821-11	METAL CHIP	1K	5%	1/10W
R482	1-216-839-11	METAL CHIP	33K	5%	1/10W
R483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R490	1-216-808-11	METAL CHIP	82	5%	1/10W
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R495	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R496	1-216-809-11	METAL CHIP	100	5%	1/10W
R501	1-216-808-11	METAL CHIP	82	5%	1/10W
R502	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R506	1-216-837-11	METAL CHIP	22K	5%	1/10W
R507	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R509	1-216-837-11	METAL CHIP	22K	5%	1/10W
R510	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R512	1-216-864-11	SHORT CHIP			
R513	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R515	1-216-809-11	METAL CHIP	100	5%	1/10W
R516	1-216-809-11	METAL CHIP	100	5%	1/10W
R517	1-216-809-11	METAL CHIP	100	5%	1/10W
R518	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R519	1-216-821-11	METAL CHIP	1K	5%	1/10W
R521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R527	1-216-864-11	SHORT CHIP			
R538	1-216-809-11	METAL CHIP	100	5%	1/10W
R540	1-216-809-11	METAL CHIP	100	5%	1/10W
R541	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R542	1-216-809-11	METAL CHIP	100	5%	1/10W
R543	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R544	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R550	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R551	1-216-833-11	METAL CHIP	10K	5%	1/10W
R552	1-216-809-11	METAL CHIP	100	5%	1/10W
R553	1-216-834-11	METAL CHIP	12K	5%	1/10W
R554	1-216-809-11	METAL CHIP	100	5%	1/10W
R556	1-216-808-11	METAL CHIP	82	5%	1/10W
R557	1-216-808-11	METAL CHIP	82	5%	1/10W
R558	1-216-808-11	METAL CHIP	82	5%	1/10W
R559	1-216-817-11	METAL CHIP	470	5%	1/10W
R561	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R562	1-216-817-11	METAL CHIP	470	5%	1/10W
R563	1-216-853-11	METAL CHIP	470K	5%	1/10W
R566	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R567	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R568	1-216-809-11	METAL CHIP	100	5%	1/10W
R569	1-216-809-11	METAL CHIP	100	5%	1/10W
R570	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R571	1-216-864-11	SHORT CHIP			
R572	1-216-835-11	METAL CHIP	15K	5%	1/10W
R574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R575	1-216-833-11	METAL CHIP	10K	5%	1/10W
R576	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R577	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R593	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R594	1-216-833-11	METAL CHIP	10K	5%	1/10W
R596	1-216-841-11	METAL CHIP	47K	5%	1/10W
R597	1-216-821-11	METAL CHIP	1K	5%	1/10W
R598	1-216-833-11	METAL CHIP	10K	5%	1/10W
R599	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R602	1-216-837-11	METAL CHIP	22K	5%	1/10W
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-833-11	METAL CHIP	10K	5%	1/10W
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-833-11	METAL CHIP	10K	5%	1/10W
R608	1-216-833-11	METAL CHIP	10K	5%	1/10W
R609	1-216-809-11	METAL CHIP	100	5%	1/10W
R613	1-216-833-11	METAL CHIP	10K	5%	1/10W
R616	1-216-833-11	METAL CHIP	10K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
R617	1-216-809-11	METAL CHIP	100	5%	1/10W	R744	1-216-821-11	METAL CHIP	1K	5%	1/10W
R618	1-216-809-11	METAL CHIP	100	5%	1/10W	R745	1-216-841-11	METAL CHIP	47K	5%	1/10W
R619	1-216-821-11	METAL CHIP	1K	5%	1/10W	R747	1-216-809-11	METAL CHIP	100	5%	1/10W
R620	1-216-801-11	METAL CHIP	22	5%	1/10W	R748	1-216-833-11	METAL CHIP	10K	5%	1/10W
R621	1-216-801-11	METAL CHIP	22	5%	1/10W	R749	1-216-849-11	METAL CHIP	220K	5%	1/10W
R622	1-216-801-11	METAL CHIP	22	5%	1/10W	R750	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R624	1-216-809-11	METAL CHIP	100	5%	1/10W	R751	1-216-821-11	METAL CHIP	1K	5%	1/10W
R628	1-249-377-11	CARBON	0.47	5%	1/4W	R752	1-216-821-11	METAL CHIP	1K	5%	1/10W
R701	1-216-817-11	METAL CHIP	470	5%	1/10W	R753	1-216-809-11	METAL CHIP	100	5%	1/10W
R702	1-216-841-11	METAL CHIP	47K	5%	1/10W	R754	1-216-809-11	METAL CHIP	100	5%	1/10W
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W	R755	1-216-809-11	METAL CHIP	100	5%	1/10W
R705	1-216-809-11	METAL CHIP	100	5%	1/10W	R756	1-216-809-11	METAL CHIP	100	5%	1/10W
R706	1-216-809-11	METAL CHIP	100	5%	1/10W	R758	1-216-809-11	METAL CHIP	100	5%	1/10W
R707	1-216-809-11	METAL CHIP	100	5%	1/10W	R759	1-216-821-11	METAL CHIP	1K	5%	1/10W
R708	1-216-809-11	METAL CHIP	100	5%	1/10W	R760	1-216-849-11	METAL CHIP	220K	5%	1/10W
R709	1-216-817-11	METAL CHIP	470	5%	1/10W	R761	1-216-849-11	METAL CHIP	220K	5%	1/10W
R710	1-216-813-11	METAL CHIP	220	5%	1/10W	R762	1-216-845-11	METAL CHIP	100K	5%	1/10W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W	R763	1-216-815-11	METAL CHIP	330	5%	1/10W
R712	1-216-813-11	METAL CHIP	220	5%	1/10W	R764	1-216-821-11	METAL CHIP	1K	5%	1/10W
R713	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R765	1-216-815-11	METAL CHIP	330	5%	1/10W
R714	1-216-809-11	METAL CHIP	100	5%	1/10W	R766	1-216-821-11	METAL CHIP	1K	5%	1/10W
R715	1-216-809-11	METAL CHIP	100	5%	1/10W	R767	1-216-833-11	METAL CHIP	10K	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W	R768	1-216-809-11	METAL CHIP	100	5%	1/10W
R717	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R769	1-216-809-11	METAL CHIP	100	5%	1/10W
R718	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R770	1-216-845-11	METAL CHIP	100K	5%	1/10W
R719	1-216-813-11	METAL CHIP	220	5%	1/10W	R771	1-216-809-11	METAL CHIP	100	5%	1/10W
R720	1-216-809-11	METAL CHIP	100	5%	1/10W	R772	1-216-821-11	METAL CHIP	1K	5%	1/10W
R721	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R773	1-216-809-11	METAL CHIP	100	5%	1/10W
R722	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R774	1-216-809-11	METAL CHIP	100	5%	1/10W
R723	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R775	1-216-821-11	METAL CHIP	1K	5%	1/10W
R724	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R777	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-809-11	METAL CHIP	100	5%	1/10W	R778	1-216-809-11	METAL CHIP	100	5%	1/10W
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R779	1-216-809-11	METAL CHIP	100	5%	1/10W
R728	1-216-864-11	SHORT CHIP				R781	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R730	1-216-809-11	METAL CHIP	100	5%	1/10W	R782	1-216-809-11	METAL CHIP	100	5%	1/10W
R732	1-216-809-11	METAL CHIP	100	5%	1/10W	R783	1-216-809-11	METAL CHIP	100	5%	1/10W
R733	1-216-821-11	METAL CHIP	1K	5%	1/10W	R784	1-216-809-11	METAL CHIP	100	5%	1/10W
R735	1-216-833-11	METAL CHIP	10K	5%	1/10W	R785	1-216-821-11	METAL CHIP	1K	5%	1/10W
R736	1-216-813-11	METAL CHIP	220	5%	1/10W	R786	1-216-821-11	METAL CHIP	1K	5%	1/10W
R737	1-216-833-11	METAL CHIP	10K	5%	1/10W	R787	1-216-833-11	METAL CHIP	10K	5%	1/10W
R738	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R788	1-216-845-11	METAL CHIP	100K	5%	1/10W
R740	1-216-809-11	METAL CHIP	100	5%	1/10W	R790	1-216-837-11	METAL CHIP	22K	5%	1/10W
R742	1-216-821-11	METAL CHIP	1K	5%	1/10W	R796	1-216-821-11	METAL CHIP	1K	5%	1/10W
R743	1-216-809-11	METAL CHIP	100	5%	1/10W	R797	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

A AD

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R804	1-216-837-11	METAL CHIP	22K	5%	1/10W
R806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R807	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R810	1-216-833-11	METAL CHIP	10K	5%	1/10W
R813	1-216-845-11	METAL CHIP	100K	5%	1/10W
R817	1-216-845-11	METAL CHIP	100K	5%	1/10W
R818	1-216-833-11	METAL CHIP	10K	5%	1/10W
R823	1-216-835-11	METAL CHIP	15K	5%	1/10W
R828	1-216-817-11	METAL CHIP	470	5%	1/10W
R829	1-216-864-11	SHORT CHIP			
R830	1-216-809-11	METAL CHIP	100	5%	1/10W
R831	1-216-839-11	METAL CHIP	33K	5%	1/10W
R832	1-216-817-11	METAL CHIP	470	5%	1/10W
R833	1-216-839-11	METAL CHIP	33K	5%	1/10W
R834	1-216-805-11	METAL CHIP	47	5%	1/10W
R835	1-216-837-11	METAL CHIP	22K	5%	1/10W
R836	1-216-864-11	SHORT CHIP			
R837	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R838	1-216-809-11	METAL CHIP	100	5%	1/10W
R839	1-216-864-11	SHORT CHIP			
R840	1-216-841-11	METAL CHIP	47K	5%	1/10W
R841	1-216-839-11	METAL CHIP	33K	5%	1/10W
R842	1-216-818-11	METAL CHIP	560	5%	1/10W
R844	1-216-864-11	SHORT CHIP			
R845	1-216-818-11	METAL CHIP	560	5%	1/10W
R846	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R847	1-218-870-11	METAL CHIP	9.1K	0.50%	1/10W
R848	1-216-836-11	METAL CHIP	18K	5%	1/10W
R849	1-216-836-11	METAL CHIP	18K	5%	1/10W
R851	1-216-833-11	METAL CHIP	10K	5%	1/10W
R853	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R854	1-216-838-11	METAL CHIP	27K	5%	1/10W
R855	1-216-864-11	SHORT CHIP			
R857	1-216-838-11	METAL CHIP	27K	5%	1/10W
R860	1-249-389-11	CARBON	4.7	5%	1/4W
R861	1-249-389-11	CARBON	4.7	5%	1/4W
R862	1-216-839-11	METAL CHIP	33K	5%	1/10W
R863	1-216-841-11	METAL CHIP	47K	5%	1/10W
R864	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R867	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R869	1-216-834-11	METAL CHIP	12K	5%	1/10W
R870	1-216-841-11	METAL CHIP	47K	5%	1/10W
R871	1-216-809-11	METAL CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R878	1-216-821-11	METAL CHIP	1K	5%	1/10W
R879	1-216-821-11	METAL CHIP	1K	5%	1/10W
R885	1-216-833-11	METAL CHIP	10K	5%	1/10W
R886	1-216-833-11	METAL CHIP	10K	5%	1/10W
R887	1-216-821-11	METAL CHIP	1K	5%	1/10W
R889	1-216-807-11	METAL CHIP	68	5%	1/10W
R890	1-216-807-11	METAL CHIP	68	5%	1/10W
R891	1-216-807-11	METAL CHIP	68	5%	1/10W
R897	1-216-821-11	METAL CHIP	1K	5%	1/10W
R899	1-216-821-11	METAL CHIP	1K	5%	1/10W

TUNER

TU1	8-598-594-10	TUNER, FSS BTF-FA421	
TU2	8-598-593-20	TUNER, FSS BTF-WA421	

VARISTOR

VD1	1-804-499-21	VARISTOR, CHIP	(1608)
VD2	1-804-499-21	VARISTOR, CHIP	(1608)
VD3	1-804-499-21	VARISTOR, CHIP	(1608)
VD4	1-804-499-21	VARISTOR, CHIP	(1608)

CRYSTAL

X1	1-767-882-21	VIBRATOR, CRYSTAL
X301	1-567-505-11	OSCILLATOR, CRYSTAL
X302	1-767-179-31	VIBRATOR, CERAMIC
X303	1-567-505-11	OSCILLATOR, CRYSTAL
X304	1-767-179-31	VIBRATOR, CERAMIC
X305	1-781-282-11	VIBRATOR, CERAMIC
X307	1-760-895-21	VIBRATOR, CERAMIC
X701	1-795-572-11	VIBRATOR, CRYSTAL

AD

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

* **A-1302-179-A AD BOARD, COMPLETE**

CAPACITOR

C1601	1-126-933-11	ELECT	100µF	20%	16V
C1602	1-126-933-11	ELECT	100µF	20%	16V
C1603	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1604	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1605	1-164-156-11	CERAMIC CHIP	0.1µF		25V

AD

REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
C1606	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1661	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1607	1-126-933-11	ELECT	100µF	20%	16V	C1663	1-126-933-11	ELECT	100µF	20%	16V
C1608	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1664	1-126-933-11	ELECT	100µF	20%	16V
C1609	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C1665	1-126-933-11	ELECT	100µF	20%	16V
C1610	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	C1666	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1611	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1668	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1612	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1669	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1613	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1670	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1614	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1671	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1615	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1672	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1616	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1673	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1617	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1674	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C1618	1-126-933-11	ELECT	100µF	20%	16V	C1675	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C1619	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1676	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C1621	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1677	1-126-933-11	ELECT	100µF	20%	16V
C1625	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1678	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C1626	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1680	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1627	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1681	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1628	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1682	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1629	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1683	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1630	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1684	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1631	1-126-933-11	ELECT	100µF	20%	16V	C1685	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1632	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1688	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1633	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1690	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1634	1-126-963-11	ELECT	4.7µF	20%	50V	C1691	1-126-933-11	ELECT	100µF	20%	16V
C1635	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C1692	1-126-933-11	ELECT	100µF	20%	16V
C1636	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C1693	1-126-933-11	ELECT	100µF	20%	16V
C1637	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C1694	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1638	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C1695	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1639	1-126-933-11	ELECT	100µF	20%	16V	C1696	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1640	1-126-933-11	ELECT	100µF	20%	16V	C1697	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1641	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1698	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1643	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1699	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1644	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1700	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1645	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C1701	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C1646	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C1704	1-126-933-11	ELECT	100µF	20%	16V
C1647	1-163-137-00	CERAMIC CHIP	680pF	5%	50V	C1707	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C1649	1-163-137-00	CERAMIC CHIP	680pF	5%	50V	C1708	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C1651	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1709	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C1652	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1711	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C1656	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1712	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1657	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1714	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1658	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1715	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1659	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C1717	1-162-927-11	CERAMIC CHIP	100pF	5%	50V

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
C1718	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1720	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1721	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C1722	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C1730	1-126-916-11	ELECT	1000µF	20%	6.3V
C1731	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1732	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1733	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C1734	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	CONNECTOR				
CN1601	1-573-301-22	CONNECTOR, BOARD TO BOARD	20P		
CN1602	1-573-301-22	CONNECTOR, BOARD TO BOARD	20P		
	DIODE				
D1601	8-719-988-61	DIODE	1SS355TE-17		
D1603	8-719-988-61	DIODE	1SS355TE-17		
D1604	8-719-069-54	DIODE	UDZSTE-175.1B		
D1605	8-719-069-54	DIODE	UDZSTE-175.1B		
D1606	8-719-069-54	DIODE	UDZSTE-175.1B		
D1607	8-719-069-54	DIODE	UDZSTE-175.1B		
D1691	8-719-988-61	DIODE	1SS355TE-17		
D1692	8-719-988-61	DIODE	1SS355TE-17		
D1693	8-719-988-61	DIODE	1SS355TE-17		
	FERRITE BEAD				
FB1601	1-414-445-11	FERRITE	0µH		
FB1602	1-414-445-11	FERRITE	0µH		
FB1603	1-414-445-11	FERRITE	0µH		
FB1604	1-414-445-11	FERRITE	0µH		
FB1605	1-414-445-11	FERRITE	0µH		
FB1606	1-414-445-11	FERRITE	0µH		
FB1607	1-414-445-11	FERRITE	0µH		
FB1608	1-414-445-11	FERRITE	0µH		
FB1609	1-414-445-11	FERRITE	0µH		
FB1610	1-414-445-11	FERRITE	0µH		
FB1611	1-414-445-11	FERRITE	0µH		
FB1612	1-414-445-11	FERRITE	0µH		
FB1613	1-414-445-11	FERRITE	0µH		
FB1614	1-414-445-11	FERRITE	0µH		
FB1615	1-414-445-11	FERRITE	0µH		
FB1616	1-414-445-11	FERRITE	0µH		
FB1617	1-414-445-11	FERRITE	0µH		

REF.NO.	PART NO.	DESCRIPTION	VALUES		
	IC				
IC1601	8-759-683-55	IC	CM0017AF		
IC1602	8-759-830-08	IC	NJM2068V-TE2		
IC1603	8-759-830-08	IC	NJM2068V-TE2		
IC1605	8-759-352-91	IC	PST9143NL		
IC1606	8-752-933-62	IC	CXP86460-647Q		
IC1607	6-700-319-01	IC	M24128-BWMN6T		
IC1608	8-759-829-87	IC	CD0031AM		
IC1609	8-759-830-08	IC	NJM2068V-TE2		
IC1610	8-759-830-08	IC	NJM2068V-TE2		
IC1611	8-759-830-08	IC	NJM2068V-TE2		
IC1612	8-759-830-08	IC	NJM2068V-TE2		
	COIL				
L1602	1-469-555-21	INDUCTOR	10µH		
	TRANSISTOR				
Q1603	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q1604	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q1606	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q1607	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
	RESISTOR				
R1600	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1601	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1603	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1605	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1608	1-216-809-11	METAL CHIP	100	5%	1/10W
R1609	1-216-809-11	METAL CHIP	100	5%	1/10W
R1611	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1614	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1618	1-216-809-11	METAL CHIP	100	5%	1/10W
R1619	1-216-864-11	SHORT CHIP			
R1620	1-216-809-11	METAL CHIP	100	5%	1/10W
R1621	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1622	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1623	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1625	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1627	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1634	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R1635	1-216-809-11	METAL CHIP	100	5%	1/10W
R1636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1637	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1638	1-216-813-11	METAL CHIP	220	5%	1/10W
R1639	1-216-809-11	METAL CHIP	100	5%	1/10W
R1641	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1642	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1643	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1644	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1645	1-216-815-11	METAL CHIP	330	5%	1/10W
R1646	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1647	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1648	1-216-809-11	METAL CHIP	100	5%	1/10W
R1649	1-216-809-11	METAL CHIP	100	5%	1/10W
R1650	1-216-815-11	METAL CHIP	330	5%	1/10W
R1651	1-216-815-11	METAL CHIP	330	5%	1/10W
R1652	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1653	1-216-817-11	METAL CHIP	470	5%	1/10W
R1654	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1655	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1656	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R1657	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1658	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1659	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1660	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1662	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1665	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1666	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1667	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1668	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1669	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1670	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1671	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1672	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1673	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1674	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1675	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1680	1-216-864-11	SHORT CHIP			
R1681	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1682	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1683	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1684	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1685	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1686	1-216-809-11	METAL CHIP	100	5%	1/10W
R1687	1-216-817-11	METAL CHIP	470	5%	1/10W
R1690	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1691	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1692	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1693	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1694	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1695	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1696	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1697	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1698	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1699	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1700	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1701	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R1702	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1703	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1704	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1705	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1706	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R1707	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1708	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1709	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R1711	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1712	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1713	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1714	1-216-833-11	METAL CHIP	10K	5%	1/10W

RESISTOR BRIDGE

RB1603	1-233-576-11	RES, CHIP NETWORK	100
RB1604	1-233-576-11	RES, CHIP NETWORK	100
RB1605	1-233-576-11	RES, CHIP NETWORK	100

CRYSTAL

X1601	1-795-789-21	PIEZ0ELECTRIC OSCILLATOR

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*	**A-1302-178-A**	**U BOARD, COMPLETE**

CAPACITOR

C2001	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2002	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2003	1-126-941-11	ELECT	470µF	20%	25V
C2004	1-128-551-11	ELECT	22µF	20%	63V
C2005	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
C2006	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2007	1-126-964-11	ELECT	10µF	20%	50V
C2008	1-126-964-11	ELECT	10µF	20%	50V
C2012	1-126-964-11	ELECT	10µF	20%	50V
C2013	1-126-964-11	ELECT	10µF	20%	50V
C2014	1-126-960-11	ELECT	1µF	20%	50V
C2015	1-126-960-11	ELECT	1µF	20%	50V
C2016	1-126-964-11	ELECT	10µF	20%	50V
C2017	1-126-964-11	ELECT	10µF	20%	50V
C2018	1-126-960-11	ELECT	1µF	20%	50V
C2019	1-126-964-11	ELECT	10µF	20%	50V
C2020	1-126-964-11	ELECT	10µF	20%	50V
C2021	1-126-960-11	ELECT	1µF	20%	50V
C2022	1-126-960-11	ELECT	1µF	20%	50V
C2023	1-126-964-11	ELECT	10µF	20%	50V
C2024	1-126-964-11	ELECT	10µF	20%	50V
C2025	1-126-960-11	ELECT	1µF	20%	50V
C2026	1-126-960-11	ELECT	1µF	20%	50V
C2028	1-126-933-11	ELECT	100µF	20%	16V
C2032	1-126-964-11	ELECT	10µF	20%	50V
C2033	1-126-960-11	ELECT	1µF	20%	50V
C2036	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2037	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C2038	1-164-816-11	CERAMIC CHIP	220pF	2.00%	50V
C2040	1-126-933-11	ELECT	100µF	20%	16V
C2043	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2044	1-126-933-11	ELECT	100µF	20%	16V
C2045	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2046	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2048	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2050	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2052	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2055	1-126-964-11	ELECT	10µF	20%	50V
C2056	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2060	1-126-933-11	ELECT	100µF	20%	16V
C2061	1-126-964-11	ELECT	10µF	20%	50V
C2062	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2064	1-126-964-11	ELECT	10µF	20%	50V
C2069	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2070	1-126-964-11	ELECT	10µF	20%	50V
C2071	1-126-933-11	ELECT	100µF	20%	16V
C2072	1-126-933-11	ELECT	100µF	20%	16V
C2075	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2076	1-126-933-11	ELECT	100µF	20%	16V

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C2077	1-126-933-11	ELECT	100µF	20%	16V
C2078	1-126-933-11	ELECT	100µF	20%	16V
C2079	1-126-933-11	ELECT	100µF	20%	16V
C2080	1-126-933-11	ELECT	100µF	20%	16V
C2081	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2083	1-126-933-11	ELECT	100µF	20%	16V
C2084	1-126-933-11	ELECT	100µF	20%	16V
C2085	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2087	1-164-160-11	CERAMIC CHIP	20pF	5%	50V
C2088	1-126-964-11	ELECT	10µF	20%	50V
C2089	1-126-964-11	ELECT	10µF	20%	50V
C2090	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C2091	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2092	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2094	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2096	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2097	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2098	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2099	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2101	1-126-964-11	ELECT	10µF	20%	50V
C2102	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2103	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2104	1-126-964-11	ELECT	10µF	20%	50V
C2105	1-126-964-11	ELECT	10µF	20%	50V
C2106	1-136-165-00	FILM	0.1µF	5%	50V
C2107	1-136-165-00	FILM	0.1µF	5%	50V
C2111	1-126-964-11	ELECT	10µF	20%	50V
C2112	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2113	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2114	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2122	1-126-964-11	ELECT	10µF	20%	50V
C2127	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2128	1-126-964-11	ELECT	10µF	20%	50V

CONNECTOR

*	CN2001	1-793-923-11	CONNECTOR, DIN (PLUG)	64P
*	CN2002	1-564-526-11	PLUG, CONNECTOR	11P

DIODE

D2001	8-719-110-17	DIODE	RD10ESB2
D2002	8-719-110-17	DIODE	RD10ESB2
D2003	8-719-110-17	DIODE	RD10ESB2
D2004	8-719-110-17	DIODE	RD10ESB2
D2005	8-719-110-17	DIODE	RD10ESB2

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REF.NO.	PART NO.	DESCRIPTION	VALUES
D2006	8-719-110-17	DIODE	RD10ESB2
D2007	8-719-110-17	DIODE	RD10ESB2
D2008	8-719-110-17	DIODE	RD10ESB2
D2009	8-719-110-17	DIODE	RD10ESB2
D2010	8-719-110-17	DIODE	RD10ESB2
D2011	8-719-110-17	DIODE	RD10ESB2
D2012	8-719-110-17	DIODE	RD10ESB2
D2013	8-719-110-17	DIODE	RD10ESB2
D2014	8-719-110-17	DIODE	RD10ESB2
D2015	8-719-110-17	DIODE	RD10ESB2
D2016	8-719-110-17	DIODE	RD10ESB2
D2017	8-719-110-17	DIODE	RD10ESB2
D2018	8-719-110-17	DIODE	RD10ESB2
D2019	8-719-110-17	DIODE	RD10ESB2
D2020	8-719-110-17	DIODE	RD10ESB2
D2021	8-719-110-17	DIODE	RD10ESB2
D2022	8-719-110-17	DIODE	RD10ESB2
D2023	8-719-110-17	DIODE	RD10ESB2
D2024	8-719-110-17	DIODE	RD10ESB2
D2025	8-719-110-17	DIODE	RD10ESB2
D2026	8-719-110-17	DIODE	RD10ESB2
D2027	8-719-110-17	DIODE	RD10ESB2
D2029	8-719-110-17	DIODE	RD10ESB2
D2030	8-719-110-17	DIODE	RD10ESB2
D2031	8-719-110-17	DIODE	RD10ESB2
D2032	8-719-110-17	DIODE	RD10ESB2
D2033	8-719-991-33	DIODE	1SS133T-77
D2034	8-719-991-33	DIODE	1SS133T-77
D2035	8-719-110-17	DIODE	RD10ESB2
D2039	8-719-110-17	DIODE	RD10ESB2
D2042	8-719-110-17	DIODE	RD10ESB2
	FERRITE BEAD		
FB2001	1-414-760-21	FERRITE	0µH
FB2002	1-414-445-11	FERRITE	0µH
	FILTER		
FL2001	1-239-848-21	FILTER, LOW PASS	
FL2002	1-239-848-21	FILTER, LOW PASS	
FL2003	1-239-848-21	FILTER, LOW PASS	
	IC		
IC2001	6-701-105-01	IC	NJM2750M-TE2
IC2002	8-759-443-11	IC	NJM2283M-TE1
IC2003	8-759-100-96	IC	UPC4558G2
IC2004	8-752-080-04	IC	CXA2069Q
IC2007	8-752-394-69	IC	CXD2073Q-T4
	JACK		
J2001	1-573-967-12	BLOCK, (S) TERMINAL	
J2002	1-764-143-21	JACK	
J2003	1-764-143-21	JACK	
J2004	1-750-517-21	JACK BLOCK, PIN	3P
J2005	1-815-015-11	JACK BLOCK, PIN	
J2006	1-815-015-11	JACK BLOCK, PIN	
J2007	1-750-516-21	JACK BLOCK, PIN	2P
J2008	1-750-517-21	JACK BLOCK, PIN	3P
J2009	1-750-516-21	JACK BLOCK, PIN	2P
	COIL		
L2001	1-469-559-21	INDUCTOR	47µH
L2002	1-469-555-21	INDUCTOR	10µH
	TRANSISTOR		
Q2001	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2002	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2003	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2004	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2005	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2006	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2007	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2010	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2012	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2013	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2015	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2016	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2017	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2020	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2021	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2022	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2024	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2025	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2026	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2027	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2028	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2029	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R2001	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2002	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2003	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2004	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2005	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2006	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2007	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2008	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2009	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2010	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2011	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2012	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2013	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2014	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2015	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2016	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2017	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2018	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2019	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2020	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2021	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2022	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2023	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2024	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2025	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2026	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2027	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2028	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2029	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2030	1-216-809-11	METAL CHIP	100	5%	1/10W
R2031	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2032	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2034	1-216-803-11	METAL CHIP	33	5%	1/10W
R2035	1-216-809-11	METAL CHIP	100	5%	1/10W
R2036	1-216-809-11	METAL CHIP	100	5%	1/10W
R2037	1-216-809-11	METAL CHIP	100	5%	1/10W
R2038	1-216-809-11	METAL CHIP	100	5%	1/10W
R2039	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2040	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2041	1-216-842-11	METAL CHIP	56K	5%	1/10W
R2042	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2043	1-216-809-11	METAL CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R2044	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2045	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2046	1-216-818-11	METAL CHIP	560	5%	1/10W
R2047	1-216-809-11	METAL CHIP	100	5%	1/10W
R2048	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2049	1-216-809-11	METAL CHIP	100	5%	1/10W
R2050	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2051	1-216-809-11	METAL CHIP	100	5%	1/10W
R2052	1-216-817-11	METAL CHIP	470	5%	1/10W
R2053	1-216-817-11	METAL CHIP	470	5%	1/10W
R2054	1-216-809-11	METAL CHIP	100	5%	1/10W
R2055	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2056	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2057	1-216-809-11	METAL CHIP	100	5%	1/10W
R2058	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2059	1-216-817-11	METAL CHIP	470	5%	1/10W
R2060	1-216-817-11	METAL CHIP	470	5%	1/10W
R2061	1-216-817-11	METAL CHIP	470	5%	1/10W
R2062	1-216-817-11	METAL CHIP	470	5%	1/10W
R2063	1-216-809-11	METAL CHIP	100	5%	1/10W
R2064	1-216-809-11	METAL CHIP	100	5%	1/10W
R2065	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2066	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2067	1-216-809-11	METAL CHIP	100	5%	1/10W
R2068	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2069	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2070	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2071	1-216-809-11	METAL CHIP	100	5%	1/10W
R2072	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2073	1-216-809-11	METAL CHIP	100	5%	1/10W
R2074	1-216-809-11	METAL CHIP	100	5%	1/10W
R2075	1-216-809-11	METAL CHIP	100	5%	1/10W
R2077	1-216-809-11	METAL CHIP	100	5%	1/10W
R2078	1-216-864-11	SHORT CHIP			
R2080	1-216-809-11	METAL CHIP	100	5%	1/10W
R2081	1-216-809-11	METAL CHIP	100	5%	1/10W
R2082	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2083	1-216-864-11	SHORT CHIP			
R2084	1-216-809-11	METAL CHIP	100	5%	1/10W
R2085	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2087	1-216-809-11	METAL CHIP	100	5%	1/10W
R2088	1-216-864-11	SHORT CHIP			
R2089	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R2090	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2092	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2094	1-216-864-11	SHORT CHIP			
R2096	1-216-809-11	METAL CHIP	100	5%	1/10W
R2097	1-216-809-11	METAL CHIP	100	5%	1/10W
R2098	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2099	1-216-809-11	METAL CHIP	100	5%	1/10W
R2100	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2103	1-216-809-11	METAL CHIP	100	5%	1/10W
R2104	1-216-809-11	METAL CHIP	100	5%	1/10W
R2105	1-216-809-11	METAL CHIP	100	5%	1/10W
R2107	1-216-807-11	METAL CHIP	68	5%	1/10W
R2108	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2109	1-216-809-11	METAL CHIP	100	5%	1/10W
R2110	1-216-809-11	METAL CHIP	100	5%	1/10W
R2111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2115	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2116	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R2118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2121	1-216-809-11	METAL CHIP	100	5%	1/10W
R2122	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2123	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2124	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2125	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R2130	1-216-805-11	METAL CHIP	47	5%	1/10W
R2131	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2133	1-218-674-11	METAL CHIP	180	0.50%	1/10W
R2136	1-216-816-11	METAL CHIP	390	5%	1/10W
R2137	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R2138	1-216-809-11	METAL CHIP	100	5%	1/10W
R2142	1-216-815-11	METAL CHIP	330	5%	1/10W
R2147	1-216-814-11	METAL CHIP	270	5%	1/10W
R2148	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R2149	1-216-817-11	METAL CHIP	470	5%	1/10W
R2150	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2151	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W
R2152	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R2153	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2155	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2156	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2157	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2159	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R2164	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R2166	1-216-818-11	METAL CHIP	560	5%	1/10W
R2169	1-216-842-11	METAL CHIP	56K	5%	1/10W
R2173	1-216-818-11	METAL CHIP	560	5%	1/10W
R2174	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2175	1-216-817-11	METAL CHIP	470	5%	1/10W
R2176	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2177	1-216-809-11	METAL CHIP	100	5%	1/10W
R2178	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R2182	1-216-864-11	SHORT CHIP			
R2183	1-216-813-11	METAL CHIP	220	5%	1/10W
R2184	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R2185	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2186	1-218-688-11	METAL CHIP	680	0.50%	1/10W
R2187	1-216-864-11	SHORT CHIP			
R2193	1-216-809-11	METAL CHIP	100	5%	1/10W
R2194	1-216-817-11	METAL CHIP	470	5%	1/10W
R2195	1-216-817-11	METAL CHIP	470	5%	1/10W
R2196	1-216-817-11	METAL CHIP	470	5%	1/10W
R2197	1-216-817-11	METAL CHIP	470	5%	1/10W
R2198	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2199	1-216-853-11	METAL CHIP	470K	5%	1/10W

B

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

*		**A-1302-209-A**	**B BOARD, COMPLETE**
		4-382-854-11	SCREW (M3X10), P, SW (+)
*		7-651-000-50	GREASE,SILICON (G-746) 200G

CAPACITOR

C3001	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3002	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3003	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3035	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3089	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3090	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3096	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3101	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3102	1-162-925-11	CERAMIC CHIP	68pF	5%	50V

B

REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
C3301	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3347	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3302	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3348	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3303	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3349	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3304	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3350	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3305	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3351	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3306	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3352	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3307	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3353	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3308	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3354	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3309	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3355	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3310	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3356	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3311	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3357	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3312	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3358	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3313	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3359	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3314	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3360	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3315	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3361	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3316	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3362	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3317	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3363	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3318	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3364	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3319	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3365	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3320	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3366	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3321	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3367	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3322	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3368	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3323	1-124-779-00	ELECT CHIP	10µF	20%	16V	C3369	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3324	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3370	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3325	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3371	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3372	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3327	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3373	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C3328	1-124-779-00	ELECT CHIP	10µF	20%	16V	C3374	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3329	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3375	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3331	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3376	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3332	1-124-779-00	ELECT CHIP	10µF	20%	16V	C3377	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3333	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3378	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3334	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3379	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3335	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3401	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3336	1-124-779-00	ELECT CHIP	10µF	20%	16V	C3402	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3337	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3338	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3404	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3339	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3405	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3340	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3406	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3341	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3407	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3343	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3408	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3344	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3409	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3345	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3410	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3346	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3411	1-164-156-11	CERAMIC CHIP	0.1µF		25V

B

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C3412	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3414	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3415	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3418	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3419	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3420	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3421	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3423	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3424	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3425	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3426	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3428	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3429	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3430	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3431	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3432	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3434	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3435	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3436	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3437	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3438	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3439	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3442	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3443	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3444	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3445	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3446	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3447	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3448	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3449	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3450	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3452	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3453	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3454	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3455	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3456	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3457	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3458	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C3462	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3463	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3464	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3465	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3466	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3467	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3468	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3469	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3470	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3473	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3474	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3475	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3476	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3477	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3478	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3479	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3480	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3481	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3482	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3483	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3484	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3485	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3486	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3487	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3488	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3489	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3490	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3491	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3492	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3493	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3494	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3495	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3496	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3499	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

CONNECTOR

*	CN3203	1-793-923-11	CONNECTOR, DIN (PLUG)	64P	

DIODE

D3089	8-719-062-51	DIODE	1PS226-115
D3090	8-719-062-51	DIODE	1PS226-115
D3099	8-719-988-61	DIODE	1SS355TE-17
D3301	8-719-083-58	DIODE	UDZSTE-173.9B

B

REF.NO.	PART NO.	DESCRIPTION	VALUES
D3302	8-719-069-60	DIODE	UDZSTE-179.1B
D3401	8-719-914-43	DIODE	DAN202K
D3402	8-719-914-44	DIODE	DAP202K
D3403	8-719-978-33	DIODE	DTZ-TT11-6.8B
	FERRITE BEAD		
FB3302	1-500-451-11	FERRITE	0µH
FB3303	1-469-110-21	FERRITE	0µH
FB3401	1-414-235-22	FERRITE	0µH
FB3402	1-414-235-22	FERRITE	0µH
	FILTER		
FL3003	1-781-924-21	FILTER, LOW PASS (SMD)	
FL3301	1-234-558-21	FILTER, LOW PASS	
FL3302	1-234-557-21	FILTER, LOW PASS	
FL3303	1-234-557-21	FILTER, LOW PASS	
FL3401	1-781-923-21	FILTER, LOW PASS (SMD)	
	IC		
IC3089	6-700-149-01	IC	M24C04-MN6T(A)
IC3090	6-802-930-01	IC	MB94918RpF-G-161-BND
IC3091	8-759-349-11	IC	PST9145NL
IC3301	8-759-663-74	IC	HY57V161610DTC-7TR
IC3302	8-759-832-05	IC	BA18BC0FP-E2
IC3303	8-752-409-78	IC	CXD2095AQ
IC3304	8-759-447-90	IC	TLC5733AIPM
IC3305	8-759-669-75	IC	TLC2932IPWR
IC3306	8-759-669-78	IC	TLC2933IPWR-12
IC3401	6-700-394-01	IC	BA25BC0FP-E2
IC3402	6-703-430-01	IC	MT48LC2M32B2TG-6-Y94W
IC3403	8-759-460-29	IC	PST9120NL
IC3404	8-759-669-75	IC	TLC2932IPWR
IC3405	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3406	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3407	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3408	8-759-672-57	IC	CXD9509AQ
IC3409	8-759-833-72	IC	NJM2870F25-TE2
IC3410	8-752-367-59	IC	CXD2309Q
IC3411	8-759-082-57	IC	TC7W04FU
IC3412	8-759-082-58	IC	TC7W08FU
IC3413	8-759-595-97	IC	SN74LV4053ANSR
IC3414	8-759-548-56	IC	M52055FP

REF.NO.	PART NO.	DESCRIPTION	VALUES
	COIL		
L3001	1-216-295-91	SHORT CHIP	
L3089	1-414-233-22	FERRITE	0µH
L3102	1-412-946-11	INDUCTOR	3.9µH
L3301	1-412-058-11	INDUCTOR	10µH
L3302	1-469-555-21	INDUCTOR	10µH
L3303	1-412-052-21	INDUCTOR	1µH
L3304	1-469-555-21	INDUCTOR	10µH
L3305	1-469-555-21	INDUCTOR	10µH
L3306	1-469-561-21	INDUCTOR	100µH
L3307	1-469-555-21	INDUCTOR	10µH
L3308	1-469-561-21	INDUCTOR	100µH
L3309	1-469-561-21	INDUCTOR	100µH
L3310	1-469-561-21	INDUCTOR	100µH
L3311	1-469-561-21	INDUCTOR	100µH
L3312	1-469-555-21	INDUCTOR	10µH
L3401	1-412-058-11	INDUCTOR	10µH
L3402	1-412-052-21	INDUCTOR	1µH
L3403	1-469-561-21	INDUCTOR	100µH
L3404	1-469-561-21	INDUCTOR	100µH
L3405	1-469-555-21	INDUCTOR	10µH
L3406	1-469-555-21	INDUCTOR	10µH
L3407	1-469-555-21	INDUCTOR	10µH
L3409	1-469-555-21	INDUCTOR	10µH
L3410	1-412-058-11	INDUCTOR	10µH
L3411	1-412-058-11	INDUCTOR	10µH
L3412	1-469-555-21	INDUCTOR	10µH
L3413	1-469-555-21	INDUCTOR	10µH
L3414	1-469-555-21	INDUCTOR	10µH
L3416	1-469-555-21	INDUCTOR	10µH
	TRANSISTOR		
Q3005	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q3006	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q3007	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q3089	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q3090	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q3091	1-801-806-11	TRANSISTOR	DTC144EKA
Q3301	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q3302	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q3303	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q3304	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q3305	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q3306	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R

B

REF.NO.	PART NO.	DESCRIPTION	VALUES		
Q3307	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3308	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3309	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3310	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3311	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3401	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3402	8-729-028-28	TRANSISTOR	2SK2036(TE85L)		
Q3403	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3404	8-729-028-28	TRANSISTOR	2SK2036(TE85L)		
Q3405	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3406	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3407	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3408	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3409	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3410	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3411	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3412	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3413	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3414	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
Q3415	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R		
	RESISTOR				
R3001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3002	1-216-864-11	SHORT CHIP			
R3021	1-216-809-11	METAL CHIP	100	5%	1/10W
R3022	1-216-809-11	METAL CHIP	100	5%	1/10W
R3023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W
R3036	1-216-809-11	METAL CHIP	100	5%	1/10W
R3037	1-216-809-11	METAL CHIP	100	5%	1/10W
R3038	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3039	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3040	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3050	1-216-809-11	METAL CHIP	100	5%	1/10W
R3079	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3089	1-216-864-11	SHORT CHIP			
R3091	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3092	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3095	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3096	1-216-817-11	METAL CHIP	470	5%	1/10W
R3097	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3098	1-216-805-11	METAL CHIP	47	5%	1/10W
R3099	1-216-805-11	METAL CHIP	47	5%	1/10W
R3100	1-216-809-11	METAL CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R3101	1-216-809-11	METAL CHIP	100	5%	1/10W
R3102	1-216-809-11	METAL CHIP	100	5%	1/10W
R3103	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R3104	1-216-809-11	METAL CHIP	100	5%	1/10W
R3105	1-216-809-11	METAL CHIP	100	5%	1/10W
R3106	1-216-818-11	METAL CHIP	560	5%	1/10W
R3107	1-216-864-11	SHORT CHIP			
R3108	1-216-817-11	METAL CHIP	470	5%	1/10W
R3109	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3110	1-216-809-11	METAL CHIP	100	5%	1/10W
R3111	1-216-809-11	METAL CHIP	100	5%	1/10W
R3301	1-216-809-11	METAL CHIP	100	5%	1/10W
R3302	1-216-817-11	METAL CHIP	470	5%	1/10W
R3303	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3304	1-216-809-11	METAL CHIP	100	5%	1/10W
R3305	1-216-809-11	METAL CHIP	100	5%	1/10W
R3306	1-216-809-11	METAL CHIP	100	5%	1/10W
R3307	1-216-864-11	SHORT CHIP			
R3308	1-216-864-11	SHORT CHIP			
R3309	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3310	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3311	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3312	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3313	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3314	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R3315	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3316	1-218-664-11	METAL CHIP	68	0.50%	1/10W
R3317	1-218-664-11	METAL CHIP	68	0.50%	1/10W
R3318	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R3319	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3320	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3321	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3322	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3323	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3324	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3325	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3326	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3327	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3328	1-216-864-11	SHORT CHIP			
R3329	1-216-815-11	METAL CHIP	330	5%	1/10W
R3330	1-216-815-11	METAL CHIP	330	5%	1/10W
R3331	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3332	1-218-709-11	METAL CHIP	5.1K	0.50%	1/10W
R3333	1-216-864-11	SHORT CHIP			

B

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R3334	1-216-809-11	METAL CHIP	100	5%	1/10W
R3335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3337	1-216-820-11	METAL CHIP	820	5%	1/10W
R3338	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3339	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3340	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3341	1-216-813-11	METAL CHIP	220	5%	1/10W
R3342	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W
R3343	1-216-809-11	METAL CHIP	100	5%	1/10W
R3344	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3346	1-216-809-11	METAL CHIP	100	5%	1/10W
R3347	1-216-815-11	METAL CHIP	330	5%	1/10W
R3348	1-216-864-11	SHORT CHIP			
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/10W
R3350	1-216-814-11	METAL CHIP	270	5%	1/10W
R3351	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3352	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3353	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3354	1-216-813-11	METAL CHIP	220	5%	1/10W
R3355	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3356	1-216-819-11	METAL CHIP	680	5%	1/10W
R3357	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3358	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3359	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3360	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3361	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3364	1-216-864-11	SHORT CHIP			
R3365	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3366	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3367	1-216-803-11	METAL CHIP	33	5%	1/10W
R3369	1-216-864-11	SHORT CHIP			
R3371	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3372	1-216-817-11	METAL CHIP	470	5%	1/10W
R3373	1-216-817-11	METAL CHIP	470	5%	1/10W
R3374	1-216-809-11	METAL CHIP	100	5%	1/10W
R3375	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3376	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3377	1-216-817-11	METAL CHIP	470	5%	1/10W
R3378	1-216-817-11	METAL CHIP	470	5%	1/10W
R3379	1-216-809-11	METAL CHIP	100	5%	1/10W
R3380	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3381	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3382	1-216-864-11	SHORT CHIP			
R3383	1-216-817-11	METAL CHIP	470	5%	1/10W
R3384	1-216-809-11	METAL CHIP	100	5%	1/10W
R3410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3421	1-216-864-11	SHORT CHIP			
R3422	1-216-864-11	SHORT CHIP			
R3423	1-216-813-11	METAL CHIP	220	5%	1/10W
R3428	1-216-803-11	METAL CHIP	33	5%	1/10W
R3429	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3432	1-216-815-11	METAL CHIP	330	5%	1/10W
R3434	1-216-809-11	METAL CHIP	100	5%	1/10W
R3445	1-216-864-11	SHORT CHIP			
R3446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3447	1-216-819-11	METAL CHIP	680	5%	1/10W
R3448	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3452	1-216-864-11	SHORT CHIP			
R3454	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3460	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3467	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3470	1-216-809-11	METAL CHIP	100	5%	1/10W
R3471	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3472	1-216-801-11	METAL CHIP	22	5%	1/10W
R3475	1-216-809-11	METAL CHIP	100	5%	1/10W
R3476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3477	1-218-701-11	METAL CHIP	2.4K	0.50%	1/10W
R3478	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3483	1-218-701-11	METAL CHIP	2.4K	0.50%	1/10W
R3484	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3485	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3486	1-216-801-11	METAL CHIP	22	5%	1/10W
R3489	1-216-864-11	SHORT CHIP			
R3490	1-216-864-11	SHORT CHIP			
R3491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3492	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3493	1-218-701-11	METAL CHIP	2.4K	0.50%	1/10W
R3495	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3496	1-216-801-11	METAL CHIP	22	5%	1/10W
R3497	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3498	1-216-818-11	METAL CHIP	560	5%	1/10W
R3499	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3502	1-216-821-11	METAL CHIP	1K	5%	1/10W

B

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R3503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3506	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3507	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3508	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3509	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3800	1-216-864-11	SHORT CHIP			
R3802	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3803	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3804	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3805	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3807	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3808	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3809	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3810	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3811	1-216-809-11	METAL CHIP	100	5%	1/10W
R3812	1-216-809-11	METAL CHIP	100	5%	1/10W
R3813	1-216-809-11	METAL CHIP	100	5%	1/10W
R3814	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3815	1-218-648-11	METAL CHIP	15	0.50%	1/10W
R3816	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3817	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3820	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3821	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3822	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3823	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3824	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3825	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3826	1-216-809-11	METAL CHIP	100	5%	1/10W
R3828	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3829	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3830	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3831	1-216-864-11	SHORT CHIP			
R3832	1-216-864-11	SHORT CHIP			
R3833	1-216-864-11	SHORT CHIP			
R3834	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3835	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3836	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3837	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3838	1-218-678-11	METAL CHIP	270	0.50%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R3839	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3840	1-216-803-11	METAL CHIP	33	5%	1/10W
R3841	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3842	1-218-689-11	METAL CHIP	750	0.50%	1/10W
R3846	1-216-801-11	METAL CHIP	22	5%	1/10W
R3847	1-216-801-11	METAL CHIP	22	5%	1/10W
R3848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3849	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3850	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3851	1-216-809-11	METAL CHIP	100	5%	1/10W
R3852	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3854	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3857	1-216-809-11	METAL CHIP	100	5%	1/10W
R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R3864	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3865	1-216-809-11	METAL CHIP	100	5%	1/10W
R3866	1-414-234-22	FERRITE	0µH		
R3867	1-414-234-22	FERRITE	0µH		
R3868	1-414-234-22	FERRITE	0µH		
R3869	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R3870	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R3871	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R3881	1-216-807-11	METAL CHIP	68	5%	1/10W
R3882	1-216-807-11	METAL CHIP	68	5%	1/10W
R3883	1-216-807-11	METAL CHIP	68	5%	1/10W
R3915	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3916	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3917	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3933	1-216-864-11	SHORT CHIP			
R3937	1-216-809-11	METAL CHIP	100	5%	1/10W
R3953	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3956	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3957	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3958	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

RESISTOR BRIDGE

RB3304	1-233-576-11	RES, CHIP NETWORK	100
RB3305	1-233-576-11	RES, CHIP NETWORK	100
RB3306	1-233-576-11	RES, CHIP NETWORK	100
RB3307	1-233-576-11	RES, CHIP NETWORK	100
RB3401	1-234-524-21	RES, CHIP NETWORK	33

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

B D

REF.NO.	PART NO.	DESCRIPTION	VALUES
RB3402	1-234-524-21	RES, CHIP NETWORK	33
RB3403	1-234-524-21	RES, CHIP NETWORK	33
RB3404	1-234-524-21	RES, CHIP NETWORK	33
RB3405	1-234-524-21	RES, CHIP NETWORK	33
RB3406	1-234-524-21	RES, CHIP NETWORK	33
RB3407	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3408	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3409	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3410	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3411	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3412	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3421	1-233-576-11	RES, CHIP NETWORK	100
RB3422	1-233-576-11	RES, CHIP NETWORK	100
RB3423	1-233-576-11	RES, CHIP NETWORK	100
RB3424	1-233-576-11	RES, CHIP NETWORK	100
RB3425	1-233-576-11	RES, CHIP NETWORK	100
RB3426	1-233-576-11	RES, CHIP NETWORK	100
RB3427	1-233-576-11	RES, CHIP NETWORK	100
RB3428	1-233-576-11	RES, CHIP NETWORK	100

CRYSTAL

X3089	1-781-945-21	VIBRATOR, CERAMIC
X3401	1-781-887-21	VIBRATOR, CRYSTAL

D

*⚠	**A-1302-180-A**	**D BOARD, COMPLETE**
	(SERIAL # 8,700,001 AND UP and # 9,700,001 AND UP)	
☛ *⚠	**A-1302-708-A**	**D BOARD, COMPLETE**
	(SERIAL # 8,000,001 TO 8,099,999 and # 9,000,001 TO 9,099,999)	
	4-382-854-11	SCREW (M3X10), P, SW (+)
*	7-651-000-50	GREASE,SILICON (G-746) 200G
	7-682-952-09	SCREW +PSW 3X16
	The high voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D board:	
⚠	1-779-095-51	LEAD ASSY, HIGH-VOLTAGE
⚠	1-900-260-40	CONNECTOR ASSY, MV

CAPACITOR

C8001	1-137-372-11	MYLAR	0.022µF	5%	50V
C8002	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8003	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8004	1-104-666-11	ELECT	220µF	20%	25V
C8005	1-126-942-61	ELECT	1000µF	20%	25V
C8006	1-126-942-61	ELECT	1000µF	20%	25V
C8007	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8008	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8009	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8010	1-136-177-00	FILM	1µF	5%	50V
C8011	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8012	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8013	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8014	1-104-665-11	ELECT	100µF	20%	25V
C8015	1-126-969-11	ELECT	220µF	20%	50V
C8016	1-104-665-11	ELECT	100µF	20%	25V
C8017	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C8018	1-126-964-11	ELECT	10µF	20%	50V
C8019	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8020	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8023	1-106-220-00	MYLAR	0.1µF	10%	100V
C8024	1-137-372-11	MYLAR	0.022µF	5%	50V
C8025	1-126-968-11	ELECT	100µF	20%	50V
C8026	1-126-968-11	ELECT	100µF	20%	50V
C8028	1-126-968-11	ELECT	100µF	20%	50V
C8029	1-126-968-11	ELECT	100µF	20%	50V
C8031	1-107-636-11	ELECT	10µF	20%	160V
C8032	1-126-968-11	ELECT	100µF	20%	50V
C8033	1-126-968-11	ELECT	100µF	20%	50V
C8034	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8035	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8036	1-126-968-11	ELECT	100µF	20%	50V
C8037	1-126-968-11	ELECT	100µF	20%	50V
C8040	1-115-349-51	CERAMIC	0.01µF		2KV
C8041	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8042	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8045	1-126-965-91	ELECT	22µF	20%	50V
C8046	1-126-965-91	ELECT	22µF	20%	50V
C8047	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8048	1-126-965-91	ELECT	22µF	20%	50V
C8049	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8050	1-126-965-91	ELECT	22µF	20%	50V
C8051	1-162-318-11	CERAMIC	0.001µF	10%	500V
C8052	1-126-965-91	ELECT	22µF	20%	50V
C8053	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8054	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8055	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C8056	1-107-652-11	ELECT	10µF	20%	250V
C8057	1-126-959-11	ELECT	0.47µF	20%	50V
C8058	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C8059	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8060	1-104-665-11	ELECT	100µF	20%	25V

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NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

D

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C8061	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8062	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8063	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8064	1-107-636-11	ELECT	10µF	20%	160V
C8065	1-106-383-00	MYLAR	0.047µF	10%	200V
C8066	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8067	1-104-665-11	ELECT	100µF	20%	25V
C8068	1-162-318-11	CERAMIC	0.001µF	10%	500V
C8069	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8070	1-126-964-11	ELECT	10µF	20%	50V
C8071	1-126-964-11	ELECT	10µF	20%	50V
C8072	1-126-964-11	ELECT	10µF	20%	50V
C8073	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8074	1-104-665-11	ELECT	100µF	20%	25V
C8075	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8076	1-128-551-11	ELECT	22µF	20%	63V
C8077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8078	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C8079	1-126-964-11	ELECT	10µF	20%	50V
C8080	1-126-964-11	ELECT	10µF	20%	50V
C8081	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C8082	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C8083	1-130-495-00	MYLAR	.1µF	5%	50V
C8084	1-130-992-11	FILM	0.022µF	5%	50V
C8085	1-162-924-11	CERAMIC CHIP	56pF	5%	50V
C8086	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8087	1-126-960-11	ELECT	1µF	20%	50V
C8088	1-126-964-11	ELECT	10µF	20%	50V
⚠ C8089	1-104-332-11	CERAMIC	470pF	10%	2KV
C8090	1-126-960-11	ELECT	1µF	20%	50V
C8091	1-104-665-11	ELECT	100µF	20%	25V
C8092	1-117-640-11	FILM	6800pF	3%	1.2KV
C8093	1-107-648-91	ELECT	100µF	20%	200V
C8094	1-126-947-11	ELECT	47µF	20%	35V
C8095	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8096	1-136-684-51	FILM	0.0022µF	2.00%	100V
C8097	1-162-131-11	CERAMIC	220pF	10%	2KV
C8098	1-162-131-11	CERAMIC	220pF	10%	2KV
C8099	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C8100	1-104-665-11	ELECT	100µF	20%	25V
C8102	1-162-318-11	CERAMIC	0.001µF	10%	500V
C8103	1-126-964-11	ELECT	10µF	20%	50V
C8104	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C8105	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C8106	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8107	1-136-187-11	MYLAR	0.047µF	10%	250V
C8108	1-126-964-11	ELECT	10µF	20%	50V
C8109	1-162-924-11	CERAMIC CHIP	56pF	5%	50V
C8110	1-126-960-11	ELECT	1µF	20%	50V
C8111	1-126-960-11	ELECT	1µF	20%	50V
C8113	1-130-495-00	MYLAR	0.1µF	5%	50V
C8114	1-125-473-11	ELECT(BLOCK)	1000µF	20%	160V
C8115	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8116	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8117	1-162-318-11	CERAMIC	0.001µF	10%	500V
C8118	1-136-189-00	MYLAR	0.1µF	10%	250V
C8120	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8121	1-115-349-51	CERAMIC	0.01µF		2KV
C8122	1-126-934-11	ELECT	220µF	20%	16V
C8123	1-107-444-11	CERAMIC	100pF	5%	2KV
⚠ C8124	1-117-642-11	FILM	8200pF	3%	1.2KV
C8125	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8126	1-106-357-00	MYLAR	0.0039µF	99%	200V
C8127	1-126-942-61	ELECT	1000µF	20%	25V
C8129	1-137-150-11	FILM	.01µF	5%	100V
C8131	1-128-582-11	ELECT	10µF	20%	100V
C8132	1-126-927-11	ELECT	2200µF	20%	10V
C8133	1-107-649-11	ELECT	2.2µF	20%	250V
C8135	1-117-813-11	FILM	0.75µF	5%	250V
C8136	1-130-495-00	MYLAR	0.1µF	5%	50V
C8137	1-126-927-11	ELECT	2200µF	20%	10V
C8138	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C8139	1-126-964-11	ELECT	10µF	20%	50V
C8140	1-102-030-00	CERAMIC	330pF	10%	500V
C8141	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8142	1-117-664-11	FILM	0.27µF	5%	250V
C8143	1-109-889-11	ELECT	1µF	20%	50V
C8153	1-126-960-11	ELECT	1µF	20%	50V
C8156	1-107-636-11	ELECT	10µF	20%	160V
C8158	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8159	1-106-383-00	MYLAR	0.047µF	10%	200V
C8160	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8162	1-162-318-11	CERAMIC	0.001µF	10%	500V
C8163	1-126-960-11	ELECT	1µF	20%	50V

CONNECTOR

*	CN8002	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN8003	1-691-135-11	PIN, CONNECTOR (PC BOARD)	4P

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	REF.NO.	PART NO.	DESCRIPTION	VALUES
*	CN8004	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN8005	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN8006	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN8007	1-564-506-11	PLUG, CONNECTOR	3P
*	CN8008	1-564-506-11	PLUG, CONNECTOR	3P
*	CN8009	1-564-506-11	PLUG, CONNECTOR	3P
*	CN8010	1-564-507-11	PLUG, CONNECTOR	4P
*	CN8011	1-564-507-11	PLUG, CONNECTOR	4P
*	CN8012	1-564-507-11	PLUG, CONNECTOR	4P
*	CN8013	1-766-177-11	PIN, CONNECTOR (PC BOARD)	9P
*	CN8015	1-506-371-00	PIN, CONNECTOR	2P
*	CN8016	1-564-507-11	PLUG, CONNECTOR	4P
	CN8018	1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P
*	CN8019	1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P
*	CN8020	1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P
*	CN8022	1-564-510-11	PLUG, CONNECTOR	7P
*	CN8023	1-564-507-11	PLUG, CONNECTOR	4P

DIODE

D8001	8-719-109-88	DIODE	RD5.6ESB1
D8002	8-719-110-53	DIODE	RD20ESB2
D8003	8-719-110-56	DIODE	RD22ESB1
D8004	8-719-908-03	DIODE	GP08D
D8005	8-719-991-33	DIODE	1SS133T-77
D8006	8-719-991-33	DIODE	1SS133T-77
D8008	8-719-991-33	DIODE	1SS133T-77
D8010	8-719-991-33	DIODE	1SS133T-77
D8011	8-719-991-33	DIODE	1SS133T-77
D8012	8-719-991-33	DIODE	1SS133T-77
D8013	8-719-109-84	DIODE	RD5.1ESB1
D8014	8-719-109-84	DIODE	RD5.1ESB1
D8015	8-719-991-33	DIODE	1SS133T-77
D8016	8-719-991-33	DIODE	1SS133T-77
D8019	8-719-991-33	DIODE	1SS133T-77
D8020	8-719-991-33	DIODE	1SS133T-77
D8022	8-719-991-33	DIODE	1SS133T-77
D8023	8-719-991-33	DIODE	1SS133T-77
D8024	8-719-110-39	DIODE	RD15ESB1
D8025	8-719-991-33	DIODE	1SS133T-77
D8026	8-719-109-88	DIODE	RD5.6ESB1
D8027	8-719-028-45	DIODE	D2L20U
D8028	8-719-110-41	DIODE	RD15ESB2
D8029	8-719-027-43	DIODE	S2L20µF
D8030	8-719-027-43	DIODE	S2L20µF
D8032	8-719-302-43	DIODE	EL1Z
D8033	8-719-028-72	DIODE	RGP02-17EL-6433
D8036	8-719-110-39	DIODE	RD15ESB1
D8037	8-719-028-45	DIODE	D2L20U
D8038	8-719-302-43	DIODE	EL1Z
D8039	8-719-028-72	DIODE	RGP02-17EL-6433
D8043	8-719-991-33	DIODE	1SS133T-77
D8045	8-719-908-03	DIODE	GP08D
D8046	8-719-991-33	DIODE	1SS133T-77
D8047	8-719-991-33	DIODE	1SS133T-77
D8050	8-719-988-61	DIODE	1SS355TE-17

FERRITE BEAD

FB8001	1-469-578-11	FERRITE	1.1µH
FB8002	1-469-578-11	FERRITE	1.1µH
FB8005	1-469-869-21	FERRITE	0µH
FB8006	1-469-869-21	FERRITE	0µH
FB8014	1-469-869-21	FERRITE	0µH
FB8015	1-469-869-21	FERRITE	0µH
FB8016	1-469-869-21	FERRITE	0µH
FB8017	1-469-869-21	FERRITE	0µH
FB8018	1-469-869-21	FERRITE	0µH
FB8021	1-469-578-11	FERRITE	1.1µH
FB8022	1-469-579-11	FERRITE	0.45µH
FB8023	1-469-579-11	FERRITE	0.45µH
FB8024	1-469-869-21	FERRITE	0µH

IC

IC8001	8-749-019-08	IC	STK392-560
IC8002	8-749-019-08	IC	STK392-560
IC8003	8-759-593-33	IC	LA78045
IC8004	8-759-647-17	IC	UPC2912HF
IC8005	8-759-585-82	IC	BA9759F-E2
IC8006	8-759-700-07	IC	NJM2903M
IC8007	8-759-700-07	IC	NJM2903M
IC8008	8-759-585-82	IC	BA9759F-E2
IC8009	8-759-803-42	IC	LA6500-FA
IC8012	8-759-701-01	IC	NJM2904M

COIL

L8001	1-412-533-21	INDUCTOR	47µH
L8002	1-412-533-21	INDUCTOR	47µH
L8003	1-412-525-31	INDUCTOR	10µH
L8004	1-412-533-21	INDUCTOR	47µH
L8005	1-412-533-21	INDUCTOR	47µH

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REF.NO.	PART NO.	DESCRIPTION	VALUES
L8006	1-412-525-31	INDUCTOR	10µH
L8007	1-412-533-21	INDUCTOR	47µH
L8008	1-412-533-21	INDUCTOR	47µH
L8009	1-412-525-31	INDUCTOR	10µH
L8010	1-414-187-11	INDUCTOR	47µH
L8011	1-414-856-11	INDUCTOR	10µH
L8012	1-414-187-11	INDUCTOR	47µH
L8013	1-414-856-11	INDUCTOR	10µH
L8014	1-414-189-31	INDUCTOR	100µH
L8015	1-414-189-31	INDUCTOR	100µH
L8016	1-412-537-31	INDUCTOR	100µH
L8017	1-414-856-11	INDUCTOR	10µH
L8018	1-406-667-11	INDUCTOR	220µH
L8019	1-456-109-11	COIL,HORIZONTAL LINEARITY(HLC)	
L8020	1-412-525-31	INDUCTOR	10µH
L8021	1-406-659-11	INDUCTOR	10µH
L8022	1-412-552-11	INDUCTOR	2.2MH
L8025	1-414-856-11	INDUCTOR	10µH
L8026	1-414-856-11	INDUCTOR	10µH
L8033	1-414-856-11	INDUCTOR	10µH
	NEON LAMP		
⚠ NL8001	1-517-778-21	LAMP, NEON	
	IC LINK		
⚠ PS8001	1-533-595-31	IC LINK	3.15A 90V
⚠ PS8002	1-533-595-31	IC LINK	3.15A 90V
⚠ PS8003	1-533-595-31	IC LINK	3.15A 90V
⚠ PS8004	1-533-595-31	IC LINK	3.15A 90V
⚠ PS8005	1-533-595-31	IC LINK	3.15A 90V
⚠ PS8006	1-533-595-31	IC LINK	3.15A 90V
⚠ PS8007	1-533-594-31	IC LINK	2.5A 90V
⚠ PS8008	1-532-685-00	IC LINK	0.8A 50V
	TRANSISTOR		
Q8001	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8002	6-550-659-01	TRANSISTOR	2SC4634LS-YB11
Q8003	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q8004	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q8007	8-729-046-80	TRANSISTOR	2SC4634LS-CB11
Q8008	8-729-207-89	TRANSISTOR	2SA1358-Y
Q8009	8-729-207-82	TRANSISTOR	2SC3421-Y
Q8010	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8011	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q8014	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8015	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8016	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8019	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q8020	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8021	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8022	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8023	8-729-048-47	TRANSISTOR	2SC2688(5)-LK
Q8024	6-550-144-01	TRANSISTOR	2SC5778-YB
Q8027	6-550-153-01	TRANSISTOR	FQPF12P20XDTU
Q8028	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8029	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8030	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q8031	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q8035	6-550-153-01	TRANSISTOR	FQPF12P20XDTU
Q8039	8-729-048-47	TRANSISTOR	2SC2688(5)-LK
Q8041	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q8042	8-729-048-47	TRANSISTOR	2SC2688(5)-LK
Q8043	6-550-144-01	TRANSISTOR	2SC5778-YB
Q8101	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
	RESISTOR		
R8001	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R8002	1-216-809-11	METAL CHIP	100 5% 1/10W
R8003	1-216-809-11	METAL CHIP	100 5% 1/10W
R8004	1-216-809-11	METAL CHIP	100 5% 1/10W
R8005	1-215-875-11	METAL OXIDE	10K 5% 1W
R8007	1-216-809-11	METAL CHIP	100 5% 1/10W
R8008	1-216-809-11	METAL CHIP	100 5% 1/10W
R8009	1-216-809-11	METAL CHIP	100 5% 1/10W
R8010	1-260-131-11	CARBON	470K 5% 1/2W
R8011	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8012	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8013	1-218-710-11	METAL CHIP	5.6K 0.50% 1/10W
R8014	1-218-709-11	METAL CHIP	5.1K 0.50% 1/10W
R8015	1-216-837-11	METAL CHIP	22K 5% 1/10W
R8016	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8017	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8018	1-216-821-11	METAL CHIP	1K 5% 1/10W
R8019	1-218-712-11	METAL CHIP	6.8K 0.50% 1/10W
R8020	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8021	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8022	1-216-839-11	METAL CHIP	33K 5% 1/10W
R8023	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8024	1-216-833-11	METAL CHIP	10K 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R8025	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8026	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8029	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8030	1-215-903-11	METAL OXIDE	68K	5%	2W
R8031	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8032	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8034	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8035	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R8036	1-214-800-11	METAL	2.2	1%	1/2W
R8037	1-215-903-11	METAL OXIDE	68K	5%	2W
R8038	1-216-809-11	METAL CHIP	100	5%	1/10W
R8039	1-214-800-11	METAL	2.2	1%	1/2W
R8040	1-215-913-11	METAL OXIDE	220	5%	3W
R8041	1-218-709-11	METAL CHIP	5.1K	0.50%	1/10W
R8042	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R8043	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8044	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R8045	1-214-808-11	METAL	4.7	1%	1/2W
R8046	1-214-808-11	METAL	4.7	1%	1/2W
R8047	1-215-857-71	METAL OXIDE	10	5%	1W
R8048	1-414-189-31	INDUCTOR	100µH		
R8049	1-414-189-31	INDUCTOR	100µH		
R8050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8051	1-214-808-11	METAL	4.7	1%	1/2W
R8053	1-214-808-11	METAL	4.7	1%	1/2W
R8055	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R8056	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8057	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8058	1-216-809-11	METAL CHIP	100	5%	1/10W
R8059	1-214-808-11	METAL	4.7	1%	1/2W
R8060	1-214-808-11	METAL	4.7	1%	1/2W
R8061	1-216-390-11	METAL OXIDE	1.2	5%	3W
		(SERIAL # 8,700,001 AND UP)			
☛ R8061	1-216-392-11	METAL OXIDE	1.8	5%	3W
		(SERIAL # 8,000,001 TO 8,700,000)			
R8062	1-260-107-11	CARBON	4.7K	5%	1/2W
R8063	1-214-808-11	METAL	4.7	1%	1/2W
R8064	1-214-808-11	METAL	4.7	1%	1/2W
R8065	1-260-328-11	CARBON	1K	5%	1/2W
R8066	1-214-808-11	METAL	4.7	1%	1/2W
R8067	1-214-808-11	METAL	4.7	1%	1/2W
R8068	1-216-809-11	METAL CHIP	100	5%	1/10W
R8069	1-214-808-11	METAL	4.7	1%	1/2W
R8070	1-214-808-11	METAL	4.7	1%	1/2W
R8071	1-215-381-00	METAL	22	1%	1/4W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R8073	1-214-808-11	METAL	4.7	1%	1/2W
R8075	1-214-808-11	METAL	4.7	1%	1/2W
R8076	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8077	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8078	1-214-808-11	METAL	4.7	1%	1/2W
R8079	1-214-808-11	METAL	4.7	1%	1/2W
R8080	1-216-353-00	METAL OXIDE	2.2	5%	1W
R8081	1-214-808-11	METAL	4.7	1%	1/2W
R8082	1-214-808-11	METAL	4.7	1%	1/2W
R8083	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8084	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8085	1-214-808-11	METAL	4.7	1%	1/2W
R8086	1-214-808-11	METAL	4.7	1%	1/2W
R8087	1-249-385-11	CARBON	2.2	5%	1/4W
R8088	1-249-385-11	CARBON	2.2	5%	1/4W
R8089	1-214-808-11	METAL	4.7	1%	1/2W
R8090	1-214-808-11	METAL	4.7	1%	1/2W
R8091	1-214-808-11	METAL	4.7	1%	1/2W
R8092	1-214-808-11	METAL	4.7	1%	1/2W
R8093	1-214-808-11	METAL	4.7	1%	1/2W
R8094	1-214-808-11	METAL	4.7	1%	1/2W
R8095	1-216-801-11	METAL CHIP	22	5%	1/10W
R8096	1-216-801-11	METAL CHIP	22	5%	1/10W
R8097	1-214-808-11	METAL	4.7	1%	1/2W
R8098	1-214-808-11	METAL	4.7	1%	1/2W
R8099	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8100	1-216-475-11	METAL OXIDE	120	5%	3W
R8101	1-216-475-11	METAL OXIDE	120	5%	3W
R8102	1-218-738-11	METAL CHIP	82K	0.50%	1/10W
R8103	1-216-816-11	METAL CHIP	390	5%	1/10W
R8104	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R8105	1-214-808-11	METAL	4.7	1%	1/2W
R8106	1-214-808-11	METAL	4.7	1%	1/2W
R8109	1-216-814-11	METAL CHIP	270	5%	1/10W
R8110	1-247-852-11	CARBON	7.5K	5%	1/4W
R8111	1-216-819-11	METAL CHIP	680	5%	1/10W
R8112	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R8113	1-216-475-11	METAL OXIDE	120	5%	3W
R8114	1-216-475-11	METAL OXIDE	120	5%	3W
R8115	1-216-475-11	METAL OXIDE	120	5%	3W
R8116	1-216-475-11	METAL OXIDE	120	5%	3W
R8117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8118	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8119	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8120	1-216-833-11	METAL CHIP	10K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R8121	1-216-809-11	METAL CHIP	100	5%	1/10W
R8123	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8124	1-249-377-11	CARBON	0.47	5%	1/4W
R8125	1-216-816-11	METAL CHIP	390	5%	1/10W
R8126	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R8128	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8129	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8130	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8131	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8133	1-215-923-00	METAL OXIDE	10K	5%	3W
R8134	1-215-873-00	METAL OXIDE	4.7K	5%	1W
R8135	1-215-923-00	METAL OXIDE	10K	5%	3W
R8136	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8137	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8138	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8139	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R8140	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8141	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R8142	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8143	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R8144	1-216-809-11	METAL CHIP	100	5%	1/10W
R8145	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R8146	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R8147	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R8148	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8149	1-249-401-11	CARBON	47	5%	1/4W
R8150	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8151	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R8152	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R8153	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R8154	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R8155	1-215-469-00	METAL	100K	1%	1/4W
R8156	1-215-469-00	METAL	100K	1%	1/4W
R8157	1-218-738-11	METAL CHIP	82K	0.50%	1/10W
R8159	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8161	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8163	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8164	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R8165	1-249-425-11	CARBON	4.7K	5%	1/4W
R8166	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R8167	1-414-189-31	INDUCTOR	100µH		
R8168	1-216-809-11	METAL CHIP	100	5%	1/10W
R8169	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8170	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R8171	1-216-809-11	METAL CHIP	100	5%	1/10W
R8172	1-249-405-11	CARBON	100	5%	1/4W
R8173	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8174	1-249-425-11	CARBON	4.7K	5%	1/4W
R8176	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8178	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8179	1-414-189-31	INDUCTOR	100µH		
R8180	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8181	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8182	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R8183	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R8189	1-249-377-11	CARBON	0.47	5%	1/4W
R8190	1-215-431-00	METAL	2.7K	1%	1/4W
R8191	1-215-429-00	METAL	2.2K	1%	1/4W
R8192	1-215-449-00	METAL	15K	1%	1/4W
R8193	1-215-449-00	METAL	15K	1%	1/4W
R8194	1-215-449-00	METAL	15K	1%	1/4W
R8195	1-215-449-00	METAL	15K	1%	1/4W
R8196	1-249-425-11	CARBON	4.7K	5%	1/4W
R8201	1-249-397-11	CARBON	22	5%	1/4W
R8202	1-260-092-11	CARBON	270	5%	1/2W
R8205	1-249-377-11	CARBON	0.47	5%	1/4W
R8206	1-249-377-11	CARBON	0.47	5%	1/4W
R8208	1-260-288-11	CARBON	0.47	5%	1/2W
R8209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8210	1-216-809-11	METAL CHIP	100	5%	1/10W
R8211	1-215-906-11	METAL OXIDE	15	5%	3W
R8212	1-215-907-11	METAL OXIDE	22	5%	3W
R8213	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8216	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8217	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8218	1-260-123-11	CARBON	100K	5%	1/2W
R8219	1-249-377-11	CARBON	0.47	5%	1/4W
R8220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8222	1-216-341-11	METAL OXIDE	0.22	5%	1W
R8223	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R8224	1-260-127-11	CARBON	220K	5%	1/2W
R8225	1-260-292-11	CARBON	1	5%	1/2W
R8228	1-260-314-11	CARBON	68	5%	1/2W
R8230	1-218-751-11	METAL CHIP	300K	0.50%	1/10W
R8232	1-216-341-11	METAL OXIDE	0.22	5%	1W
R8236	1-218-917-11	METAL CHIP	820K	0.50%	1/10W
R8237	1-216-857-11	METAL CHIP	1M	5%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

A component identified by this ⧓ symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

D SR H2 H1

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	R8249	1-215-923-00	METAL OXIDE	10K	5%	3W
	R8250	1-215-923-00	METAL OXIDE	10K	5%	3W
	R8251	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R8253	1-216-816-11	METAL CHIP	390	5%	1/10W
	R8254	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
	R8255	1-215-873-00	METAL OXIDE	4.7K	5%	1W
	R8256	1-249-401-11	CARBON	47	5%	1/4W
	R8258	1-216-833-11	METAL CHIP	10K	5%	1/10W
		TRANSFORMER				
	T8001	1-437-708-11	TRANSFORMER, FERRITE (DFT)			
	T8002	1-437-739-11	TRANSFORMER, FERRITE (HDT)			
	T8003	1-437-401-21	FERRITE TRANSFORMER (HOT)			
⚠	T8004	1-437-399-21	TRANSFORMER, FERRITE (LOT)			
⚠	T8005	1-453-285-51	FBT ASSY, NX-4006//X4P4			
	T8006	1-437-739-11	TRANSFORMER, FERRITE (HDT)			
		THERMISTOR				
	TH8001	1-800-193-00	THERMISTOR			
		VARIABLE RESISTOR				
⚠⧓	VR8001	1-225-627-91	RES, VAR, ADJ, CERMET	2K		
⚠⧓	VR8002	1-225-630-91	RES, VAR, ADJ, CERMET	20K		

SR

*		**A-1400-759-A**	**SR BOARD, MOUNTED**	
		CONNECTOR		
*	CN9901	1-564-506-11	PLUG, CONNECTOR	3P
		DIODE		
	D9902	8-719-069-55	DIODE	UDZSTE-175.6B
		BATTERY		
	SB9901	1-756-295-11	BATTERY, SOLAR	

H2

*		**A-1405-147-A**	**H2 BOARD, MOUNTED**	
		CONNECTOR		
*	CN9201	1-564-520-11	PLUG, CONNECTOR	5P
*	CN9202	1-564-521-11	PLUG, CONNECTOR	6P

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
		RESISTOR				
	R9201	1-218-684-11	METAL CHIP	470	0.50%	1/10W
	R9202	1-218-684-11	METAL CHIP	470	0.50%	1/10W
	R9203	1-218-684-11	METAL CHIP	470	0.50%	1/10W
	R9204	1-218-684-11	METAL CHIP	470	0.50%	1/10W
	R9205	1-218-688-11	METAL CHIP	680	0.50%	1/10W
	R9206	1-218-688-11	METAL CHIP	680	0.50%	1/10W
	R9207	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
	R9208	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
	R9209	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
	R9210	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
	R9211	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
		SWITCH				
	S9201	1-572-198-11	SWITCH, KEYBOARD			
	S9202	1-572-198-11	SWITCH, KEYBOARD			
	S9203	1-572-198-11	SWITCH, KEYBOARD			
	S9204	1-572-198-11	SWITCH, KEYBOARD			
	S9205	1-572-198-11	SWITCH, KEYBOARD			
	S9206	1-572-198-11	SWITCH, KEYBOARD			
	S9207	1-572-198-11	SWITCH, KEYBOARD			
	S9208	1-572-198-11	SWITCH, KEYBOARD			
	S9209	1-572-198-11	SWITCH, KEYBOARD			
	S9210	1-572-198-11	SWITCH, KEYBOARD			
	S9211	1-572-198-11	SWITCH, KEYBOARD			
	S9212	1-572-198-11	SWITCH, KEYBOARD			

H1

*		**A-1405-148-A**	**H1 BOARD, MOUNTED**	
		CAPACITOR		
	C9101	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
		CONNECTOR		
*	CN9101	1-564-508-11	PLUG, CONNECTOR	5P
*	CN9102	1-564-506-11	PLUG, CONNECTOR	3P
		DIODE		
	D9101	8-719-053-43	DIODE	SLR-325VCT31
	D9102	8-719-053-43	DIODE	SLR-325VCT31
		IC		
	IC9101	8-719-066-43	DIODE	GP1U28Y

H1 H4

REF.NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R9101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9102	1-216-809-11	METAL CHIP	100	5%	1/10W
R9103	1-216-813-11	METAL CHIP	220	5%	1/10W
R9104	1-216-813-11	METAL CHIP	220	5%	1/10W
	SWITCH				
S9101	1-571-532-21	SWITCH, TACTILE			

H4

*	**A-1405-149-A**	**H4 BOARD, MOUNTED**	
	CAPACITOR		
C9400	1-126-964-11	ELECT	10µF 20% 50V
C9401	1-126-964-11	ELECT	10µF 20% 50V
C9402	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
C9403	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V
C9405	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
	CONNECTOR		
* CN9401	1-564-526-11	PLUG, CONNECTOR	11P
	DIODE		
D9400	8-719-110-17	DIODE	RD10ESB2
D9401	8-719-110-17	DIODE	RD10ESB2
D9402	8-719-110-17	DIODE	RD10ESB2
D9403	8-719-110-17	DIODE	RD10ESB2
D9404	8-719-110-17	DIODE	RD10ESB2
D9405	8-719-110-17	DIODE	RD10ESB2
	JACK		
J9401	1-770-361-11	TERMINAL BLOCK, S	

REF.NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R9400	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9401	1-216-853-11	METAL CHIP	470K	5%	1/10W
R9402	1-218-285-11	METAL CHIP	75	5%	1/10W
R9403	1-218-285-11	METAL CHIP	75	5%	1/10W
R9406	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9407	1-218-285-11	METAL CHIP	75	5%	1/10W

ACCESSORIES AND PACKING

*	4-091-919-01	BAG, PROTECTION
*	4-096-271-01	CARTON, INDIVIDUAL
*	4-091-087-01	CUSHION, LOWER
*	4-091-086-01	CUSHION, UPPER
	4-094-605-11	MANUAL, INSTRUCTION
	4-094-605-21	MANUAL, INSTRUCTION
	4-094-605-31	MANUAL, INSTRUCTION
*	4-091-920-01	SHEET, PROTECTION
*	4-096-700-01	TRAY

REMOTE COMMANDER

1-476-864-11	REMOTE COMMANDER (RM-Y909)
4-081-888-01	BATTERY COVER (FOR RM-Y909)

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SERVICE MANUAL

RA-6A CHASSIS

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to:

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